Stähler, Frank

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Frank Stähler

Market Entry and Foreign Direct Investment

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Market Entry and Foreign Direct Investment*

Frank Stähler
Department of Economics
University of Kiel
Wilhelm-Seelig-Platz 1
D–24098 Kiel, Germany
fstehler@econ-theory.uni-kiel.de

Abstract
This paper discusses the impact of foreign direct investment (FDI) on market entry and welfare in a model of two countries and two periods. In the first period, firms enter the market as national firms, in the second period, FDI is possible. The paper demonstrates that FDI reduces market entry because equilibrium profits in the second period decline with a decrease in the fixed cost of FDI. Therefore, compared to a trade regime without any FDI, prices rise in the first period but decline in the second period. The paper shows, however, that FDI will unambiguously improve the sum of discounted consumer surplus.

JEL-Classification: F12, F15.

Keywords: Foreign direct investment, multinational enterprises, imperfect competition, free entry.

1 Introduction

This paper discusses the impact of foreign direct investment (FDI) on market structure and welfare in a model of two countries in which national firms may enter an international market in the first period and – once they have entered – decide on FDI in the second period. National firms serve both the domestic and the foreign market by the same domestic production plant, i.e. the foreign market is served by exports. Multinational firms serve each market by a local production plant, i.e. the foreign market is served by FDI. The paper shows that equilibria are possible in which both national and multinational firms are active. If both types of firms coexist, the paper finds that FDI will reduce the number of entrants in the first period because a potential entrant anticipates that competition in the second period will be the tougher the more multinational firms will then be active. The decrease in entrants increases the equilibrium price in the first period, but FDI decreases the equilibrium price in the second period. Compared with a trade regime under which FDI is banned, FDI will thus lead to welfare losses in the first period but to welfare gains in the second period. If consumers use the same discount factor as firms, the paper shows that FDI unambiguously improves the sum of discounted consumer surplus.

The paper is motivated by the fact that the welfare effects of FDI are not exhaustively understood compared to the welfare effects of trade although FDI seems to be more the driving force of globalization than trade. For decades, the aggregate sales by affiliates of multinational firms have outnumbered aggregate world exports. For example, the World Investment Report of the United Nations estimates sales of foreign affiliates at USD 17.685

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1The literature distinguishes between horizontal FDI, that is, a firm sets up a further plant in the foreign country and keeps the plant in the home country running (Markusen, 1984; Horstmann and Markusen, 1992; Brainard, 1993; Markusen and Venables 1998, 2000) and vertical FDI, where the home plant is shut down instead (Helpman, 1984; Helpman and Krugman, 1985). The motive for horizontal FDI is to avoid trade costs, whereas the motive for vertical FDI is to exploit differences in factor prices and endowment. Empirical evidence suggests that FDI is dominantly of the first type (Brainard, 1997; Blonigen, 2001; Markusen, 1998, Markusen and Maskus, 2001) because most of the world-wide FDI takes place among industrialized countries which do not differ substantially.
trillions in the year 2002, whereas exports of goods and non-factor services amounted to USD 7.838 trillions in the same period. Furthermore, globalization in general and the role of FDI and multinational firms in particular are both not unanimously welcome because multinational firms are supposed to be dominating markets and policy. This fear has led to protests during the World Summits and WTO meetings and demands to control the activities of multinational firms. For example, Attac, the world-wide forum of protestors, has claimed that "[t]he political reformation of globalization processes must also be accompanied by a binding regulation on the activities of multinational corporations. [...] We therefore demand an international competition authority capable of intervention, which is given the responsibility for controlling major mergers, market-dominating positions and business practices that restrict competition."³

In order to be able to deal with these claims, it is thus necessary to understand the impact of FDI on market structure and welfare. This paper is a first attempt to rationalize this discussion by a simple model of trade, FDI and endogenous market structures. Surprisingly, only a few papers have dealt with both FDI and market structure simultaneously. Horstmann and Markusen (1992) study the impact of FDI on market structure and welfare but their model does not allow more than two firms to enter the market. De Santis and Stähler (2004) show in a general model of endogenous market structures that FDI is welfare improving compared to trade if national and multinational firms may locate in each country. However, they also demonstrate that national and multinational firms will not coexist in their model if countries are symmetric. Other papers on FDI and trade like Markusen and Venables (1998, 2000) use a similar model structure but in a general equilibrium setting. They solve their model by numerical simulations and show that coexistence may occur if countries are asymmetric.

This paper employs a model of two symmetric countries in which coexistence of both types of firms is possible in equilibrium and which allows for

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²See UNCTAD (2003), Table I.1, p. 3.
³See Making Globalization equitable, declaration by the German Federation of Trade Unions (DGB), VENRO (Association of German Development NGOs) and Attac, p.7f.
market concentration. It uses a similar approach as Horstmann and Markusen (1992) and De Santis and Stähler (2004) to model horizontal FDI. The difference to these papers is that a firm cannot enter a new market as a multinational firm right from the beginning because coordination and monitoring costs of starting a multinational business from scratch are prohibitively large. However, once they have entered, they may decide on FDI in the future. Accordingly, the paper is organized as follows: Section 2 will introduce the model and the structure of moves. Section 3 will determine the equilibrium market structure. Section 4 will present the impact of FDI on welfare. Section 5 will conclude.

2 The model

The model assumes two symmetric countries, a domestic country $d$ and a foreign country $f$, and two goods $X$ and $Y$. $Y$ is produced under perfect competition and is the numeraire of the model. $X$ is produced under imperfect competition, either by national firms or by multinational firms. There is only one factor of production, $L$, which is normalized such that one unit of $L$ produces one unit of $Y$. The quasi-linear preferences of the representative consumer are given by the utility function $U(X, Y) = aX - bX^2/2 + Y$ which is maximized subject to the budget constraint $L + \Pi \geq pX + Y$, where $\Pi$ denotes the profits realized by firms having their headquarters within the country of the representative consumer. $p$ denotes the price of $X$ in terms of the numeraire. Maximization yields the inverse demand function $p = a - bX$ for each country. Markets are assumed to be segmented but our results will also hold for integrated markets as long as firms may distinguish between production for the home market and production for the foreign market.

The marginal cost of production of good $X$ is $c$, and shipping this good from one country to the other has trade cost $t$ per unit. $K$ will denote the number of active firms in both countries. As usual in the trade literature, we will refer to those firms which serve the foreign market via exports as national firms, and to those which serve the foreign market by a plant set up in the foreign country as multinational firms. Multinational firms save
the trade costs $t$ as they serve the foreign country with a plant set up in this country but they have to sink fixed cost for establishing the subsidiary by FDI. This paper assumes that multinational firms are not established immediately but that they have entered the market as national firms in the past. The reason is that setting up headquarters and starting the production process in one country alone is such challenging that the management is not able to establish simultaneously a subsidiary in the other country. Thus, the model assumes that foreign direct investment is possible only after a firm has already entered the market as a national firm. In particular, the model assumes the following sequence of decisions:

- **Period 1**
  - Firms decide on market entry. If a firm enters the markets, it sinks cost $F$ for setting up headquarters and one production plant in the home country.
  - Each firm decides on output for the home market and exports.

- **Period 2**
  - Each firm decides on (horizontal) foreign direct investment. If a firm becomes multinational, it sinks cost $G$ for setting up one production plant in the host country.
  - Each firm decides on output for the home market and output for the foreign market.

From the viewpoint of period 1, the possibility of FDI in the second period is a future option so that $G$ gives the expected cost to save trade costs by establishing a subsidiary. The profitability of FDI will depend on the size of $G$, and it is then clear that FDI will be the more attractive the lower $G$ is. A reduction in the cost $G$ will therefore be treated as an exogenous shift which makes FDI potentially more attractive.

Note that the results do not change if the model assumed that – once national and multinational firms have been established – new firms may enter the market in a third period, either as national or multinational firms.
The reason could be that the industry has already reached a certain degree of maturity in period 3 so that establishing simultaneously a firm and a subsidiary is possible. The potential market entry of firms in subsequent periods would then change the profitability to enter the market in the first period but would affect all active firms, irrespective of their type. If these effects were to be taken into account, the cost to enter the market, $F$, had to be reduced by the sum of discounted profits of subsequent periods, without changing the basic results. Hence, the game structure relies only upon the reasonable assumption that a new market can be explored only by national firms in a first step which then have a first mover advantage to establish subsidiaries before further multinational firms may be established. Furthermore, the paper will show under which conditions the results remain unchanged if a national or a multinational firm may enter the market in the second period.

The decision on market entry will rest upon the profits to be expected in these two periods. In the first period, firms may enter only as national firms. If they enter, the first period profits of a domestic national firm are

$$\Pi_1 = (p_1^d - c)x_1^d + (p_1^f - c - t)x_1^f - F.$$  \hfill (1)

The subscript 1 denotes period 1, $p_1^d$($p_1^f$) denotes the first period price in the domestic (foreign) country and $x_1^d$($x_1^f$) denotes firm output for the domestic market (firm exports to the foreign market). If no second period existed, the model would coincide with the reciprocal dumping model of Brander (1981) and Brander, Krugman (1983).

In the second period, the cost $F$ is sunk and of no further relevance. But those firms which have entered the market will then decide on FDI. If a domestic firm decides to remain a national firm, denoted by the superscript $n$, its second period profits are

$$\Pi_n^2 = (p_2^d - c)x_2^{nd} + (p_2^f - c - t)x_2^{nf}.$$  \hfill (2)

where the notation is similar to those used in eq. (1). In period 2, however, the firm may also decide to become multinational in order to save trade costs by making an investment with cost $G$. If a domestic firm goes for FDI, its
second period profits are

$$\Pi_2^m = (p_2^d - c)x_2^{md} + (p_2^f - c)x_2^{mf} - G.$$  (3)

The superscript $m$ denotes the multinational firm. Note that $x_2^{mf}$ does not denote exports but the production for the foreign market by a plant set up in the foreign country. In the remainder of the paper, $M$ will denote the number of multinational firms in both countries, for which $0 \leq M \leq K$, and hence $K - M$ is the number of national firms in both countries. Since both countries are symmetric, the number of active national and multinational firms in each country is $M/2$ and $(K - M)/2$, respectively.\(^4\)

The model will restrict the range of fixed costs reasonably:

**Assumption 1**

$$G \geq G = \frac{t(2(a - c) - (K + 1)t)}{b(K + 1)}$$

will restrict the cases in which FDI will occur to the interesting cases in which national and multinational firms coexist.

**Assumption 2**

$$\frac{b^2\delta G^2 + (1 + \delta)t^4}{2bt^2} < F < \frac{b^2\delta G^2 + (1 + \delta)t^4}{2bt^2} + \frac{2(a - c)(a - c - 2t) + t^2}{2b}$$

will guarantee a feasible solution for the market entry game. $\delta$ for which $0 < \delta < 0$ denotes the (common) discount factor by which firms take the second period profits into account in period 1. The upper bound will guarantee that the fixed cost $F$ is not too large so that the market will not exist. The lower bound will rule out an infinite number of entrants and will thus guarantee that the second period profits are not too attractive from the viewpoint of a potential entrant in the first period. The subsequent section will determine the equilibrium number of firms.

\(^4\)As usual in the literature, the model will ignore the integer constraint for the number of firms. This is a good approximation as long as the number of firms is not too small.
3 Endogenous market structures under trade and FDI

This section will begin with analyzing the equilibrium market structure in period 2. In period 2, market entry is not possible but firms may be of national or multinational type. Solving for the f.o.c.’s of (2) and (3) determines the maximized profits of national and multinational firms

\[ \Pi_m^2 = \frac{2(a - c + 0.5t(K - M))^2}{b(K + 1)^2} - G, \quad (4) \]

\[ \Pi_n^2 = \frac{(a - c + 0.5t(K - M))^2}{b(K + 1)^2} + \frac{(a - c - t - 0.5t(K - M) - tM)^2}{b(K + 1)^2}. \]

Note carefully that an increase in the number of multinational firms reduces the profits of a multinational firm more than those of a national firm:

\[ \frac{\partial \Pi_m^2}{\partial M} = -\frac{t(2(a - c)) + (K - M)t}{b(K + 1)^2} < \frac{\partial \Pi_n^2}{\partial M} = -\frac{t(2(a - c)) - (M - 1)t}{b(K + 1)^2} < 0. \quad (5) \]

FDI increases the aggregate output and thus the market price because a multinational firm does not face trade costs. Eq. (5) shows that a multinational firm is more vulnerable to FDI than a national firm. The reason is that a multinational firm is larger in size, and hence a decrease in price hits a multinational firm more than a national firm. Eq. (4) yields the following lemma.

**Lemma 1** If market entry has occurred in period 1, national firms and multinational firms may coexist in period 2.

Proof: If both types of firms coexist, the second period profits will be equalized in equilibrium. Otherwise, a single firm has an incentive to switch its type unilaterally. Equalizing profits \( \Pi_m^2 \) and \( \Pi_n^2 \) yields the equilibrium number of multinational firms

\[ M^* = \frac{t(2(a - c) - t) - bG(K + 1)}{t^2}. \quad (6) \]
Obviously, the larger $G$, the lower will $M$ be. In particular, no multinational firm will be established, \textit{i.e.} $M^* = 0$, if $G$ is equal to or larger than

$$\overline{G} = \frac{t(2(a - c) - t)}{b(K + 1)}. \quad (7)$$

No firm will remain to be of the national type, \textit{i.e.} $M^* = K$, if $G$ is equal to or less than

$$\underline{G} = \frac{t(2(a - c) - (K + 1)t)}{b(K + 1)}. \quad (8)$$

The proof for possible coexistence is complete if $G$ may lie between these two bounds which is in fact possible:

$$\overline{G} - \underline{G} = \frac{Kt^2}{b(K + 1)} > 0. \quad \square \quad (9)$$

Note that the range $\overline{G} - \underline{G}$ is the larger the lower $K$ is. The reason is that multinational firms have to cover more fixed costs, and hence they have to be larger in terms of output than national firms. In particular, they produce more for the foreign market via the plant set up in the host country than they would export as a national firm. However, if the market is already crowded with a lot of rivals, a multinational can hardly be that profitable because it has to compete also with foreign national firms in the foreign country which are not at a cost disadvantage.

Assumption 1 guarantees that both types of firms coexist as long as $G \leq \overline{G}$. In this case, the equilibrium profits of both the national and the multinational firm can be computed by inserting (6) into the equalized profits (4):

$$\Pi_2 = \frac{b^2G^2 + t^2}{2bt^2} \quad (10)$$

Firms deciding on market entry in the first period will correctly anticipate these equilibrium profits of period 2. The equilibrium profits are represented by point C in Figure 1. Figure 1 shows the behavior of individual national and multinational profits, respectively, with the number of multinational firms, $M$. According to (5), the slope of the multinational profit curve is steeper
Figure 1: Second period profits
than the slope of the national profit curve. Figure 1 demonstrates also that the equilibrium profits (point C) in the second period are less than the profits realized if all firms had remained national (point A). But Point A is no equilibrium as a single firm has an incentive to become a multinational firm because it realizes larger profits (point B). Thus, all firms would prefer to remain national firms (point A), but a single firm has an incentive to defect since it is able to increase its profits unilaterally (point B). If a single firm has an incentive to become multinational, it will expand output for the foreign market and will thus reduce the profits of national firms. However, further multinational firms will then be established until profits are equalized. Therefore, profits will be reduced for both types of firms compared to the case that all firms had remained national. In other words, the more profitable FDI is, the smaller are the second period equilibrium profits. The reason is the described business stealing effect implied by multinational firms which makes all firms suffer from FDI in the second period.

Note carefully that the equilibrium profits (10) decline with a reduction in the FDI cost $G$. Figure 1 shows also the effects of this increase in the profitability of FDI. A decrease in $G$ shifts the multinational profit curve upwards, increases the unilateral incentive to become multinational (point $B'$) but decreases equilibrium profits (point $C'$). This is the reason why the equilibrium profits (10) decrease with the FDI cost $G$ as the increased unilateral profitability of FDI makes the business stealing effect stronger.

The market entry decision in period 1 will also depend on the equilibrium profits in period 1. Since only national firms will be active then, using the f.o.c.’s of the maximization exercise concerning (1) leads to profits of

$$
\Pi_1 = \frac{(a - c + 0.5tK)^2}{b(K + 1)^2} + \frac{(a - c - t - 0.5tK)^2}{b(K + 1)^2} - F. \quad (11)
$$

Assumption 2 guarantees that a finite number of firms enters the market. Market entry occurs until the discounted sum of expected profits over both periods is zero, i.e.

$$
\Pi_1 + \delta \Pi_2 = 0. \quad (12)
$$
Proposition 1 The equilibrium number of entrants increases with the cost of foreign direct investment.

Proof: Under the use of (11) and (12), the equilibrium number of entrants in period 1 is
\[
K^* = \frac{(a - c) + (a - c - t)}{\sqrt{2b(F - \delta \Pi_2)} - t^2} - 1. \tag{13}
\]

Since \(\Pi_2\) depends positively upon \(G\) (see (10)), \(K^*\) increases with \(G\). Assumption 2 guarantees that \(0 < K^* < \infty\). \(\square\)

Proposition 1 shows that an increase in the profitability of FDI, i.e. a reduction in FDI cost \(G\), leads to less market entry because firms anticipate that FDI leads to more competition in the future. Thus, market concentration occurs. Under the use of \(K^*\), multinational firms will become active in the second period if the fixed cost of foreign direct investment is less than

\[
\bar{G} = \frac{t\sqrt{2bF - (1 + \delta)t^2}}{b\sqrt{1 + \delta}}. \tag{14}
\]

So far, the results relied upon the assumption that market entry is not possible in the second period. Proposition 2 demonstrates that all results carry over to the case of possible market entry in the second period if the discount factor \(\delta\) is not too small.

Proposition 2 If market entry in the second period is possible, market entry will not occur if

\[
\delta > \frac{b^2G^2}{b^2G^2 + t^4}.
\]

Proof: The upper bound for the fixed cost \(F\) (see Assumption 2) guarantees that the number of entrants is finite:

\[
F > \frac{b^2\delta G^2 + (1 + \delta)t^4}{2bt^2} := F.
\]
No firm will enter the market in the second period if the fixed cost $F$ is larger than the second period equilibrium profits of any firm which has already entered in the first period (see (10)). Further entry could only reduce these profits for all firms. If $\delta > \frac{b^2G^2}{(b^2G^2 + t^4)}$, $F$ is larger than (10) and hence any second period entrant would incur losses, irrespective of its type. □

Proposition 2 demonstrates that market entry by further firms will not be profitable if the number of firms which have already entered the market in the first period is large. This will happen if the discount factor is sufficiently large so that second period profits have a sufficiently strong weight when firms decide on market entry in the first period.

4 Welfare results

This section will now explore how FDI will change welfare. The reference point for the comparison is a pure trade regime under which FDI is not possible, for instance because capital controls effectively ban FDI. Then, the FDI ban is lifted, and firms may become multinational in the second period. Analytically, the welfare effects will be explored by considering a reduction in the fixed cost of foreign direct investment, $G$. This can be best understood as taking $\overline{G}$ as the starting point for which FDI will not occur. Then, the fixed cost of FDI is reduced and the change in welfare with this reduction can be determined. Furthermore, this section will assume that the discount factor used by firms coincides with the discount factor used by the representative consumer and any social planner. As firms will enter in the first period until the discounted sum of profits is equal to zero, only the impact of FDI on consumer surplus matters. The first result shows that FDI does not unambiguously change welfare in both periods.

**Proposition 3** If an FDI–trade regime replaces a pure trade regime, prices rise in the first period but decline in the second period.

Proof: The f.o.c.’s for (1), (2) and (3) and the equilibrium values for $M$ and $K$ (see (6) and (13)) allow to compute the aggregate output in each market for each period,
\[ X_1 = \frac{2(a - c) - t - \sqrt{2bF - t^2 - 2b\Pi_2}}{2b}, \]  
\[ X_2 = \frac{2(a - c) - t - \frac{bG}{t}}{2b}, \]  
and the equilibrium prices in each market in each period,

\[ p_1 = c + \frac{t + \sqrt{2b(F - \delta\Pi_2) - t^2}}{2} \]  
\[ p_2 = c + \frac{bG + t^2}{2t} \]

As \( \Pi_2 \) depends positively upon \( G \) (see (10)), \( p_1 \) decreases with \( G \). The effect on \( p_2 \) is obvious from (18). □

Since consumer surplus is negatively related to prices, Proposition 3 shows that FDI will reduce the first period welfare but will increase the second period welfare. The possibility to make an FDI lets firms anticipate the business stealing effect in the second period. This business stealing effect reduces the second period equilibrium profits, and hence less firms will enter in the first period. Consequently, market concentration implies higher prices. In the second period, however, the business stealing effect is beneficial for consumers, because multinationals increase aggregate production and thus reduce prices. The next result demonstrates the aggregate welfare effect over both periods.

**Proposition 4** Foreign direct investment unambiguously improves the sum of discounted consumer surplus.

Proof: Due to the quasi-linear preferences, the sum of discounted consumer surplus is equal to

\[ CS = \frac{bX_1^2}{2} + \delta \frac{bX_2^2}{2}. \]  

Under the use of (15) and (16), differentiation of \( CS \) with respect to \( G \) yields
\[
\frac{dCS}{dG} = \gamma(G) \frac{2(a - c) - t}{4t^2 \sqrt{2bF - \frac{\delta b^2 G^2}{t^2}} - (1 + \delta)t^2}
\]  
(20)

with
\[
\gamma(G) = bG - t \sqrt{2bF - \frac{\delta b^2 G^2}{t^2}} - (1 + \delta)t^2
\]  
(21)

Note that the root in the denominator is unambiguously positive due to Assumption 2 \((K^* < \infty\) requires \(2bF - \frac{\delta b^2 G^2}{t^2} - (1 + \delta)t^2 > 0\) if \(\Pi_2\) is replaced by (10) in (13)). Therefore, the sign of \(dCS/dG\) depends on \(\gamma(G)\). If \(\gamma(G)\) is negative, the change of CS with G is negative. Note that
\[
\gamma' = b + \frac{\delta b^2 G}{t \sqrt{2bF - \frac{\delta b^2 G^2}{t^2}} - (1 + \delta)t^2} > 0.
\]  
(22)

Furthermore
\[
\gamma(G) = 0.
\]  
(23)

Hence, \(\gamma\) is negative if multinational firms are active, and thus CS decreases with \(G\). \(\square\)

Proposition 4 demonstrates that the decrease in the first period consumer surplus is overcompensated by the increase in the second period consumer surplus. This is a remarkable result because it shows that aggregate welfare will rise despite the fact that FDI will lead to market concentration and higher prices in the first period.

5 Concluding remark

This paper has set up a model in which firms start their business as exporting, national firms and may become multinational later on. It has demonstrated that coexistence of national and multinational firms is then possible. Furthermore, it has shown that FDI may lead to less entry into new markets compared to a trade regime under which FDI is banned. The option of FDI in future periods reduces the profits of firms as competition will be tougher then,
and this effect is anticipated by potential entrants. The paper has demonstrated that this two period model can partially confirm the public concerns about possible market concentration as a result of the emergence of multinational firms. It is true that the future option of FDI will unambiguously lead to market concentration and less consumer surplus today. As a result, prices will rise in the first period, but will decline in future periods compared to a pure trade regime. Thus, consumers benefit from multinational enterprises in the future as this type of firms will be closer to the markets compared to exporting firms and competition will be tougher. The paper has shown that allowing FDI and reducing welfare today may pay off because the future welfare increase is larger than the recent welfare loss.

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