International Transport costs: New Findings from modeling additive Costs

Asnwer to Referee 1

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1 Critique 1: Empirical Strategy

1.1 Deriving the share of additive costs in total transport costs

With i the origin country, k the product category at the HS6 level (and reasoning at the year- transport mode level), p_{ik} the import (cif) price and \tilde{p}_{ik} the export (fas) price, transport costs $f_{ik} \equiv \frac{p_{ik} - \tilde{p}_{ik}}{\tilde{p}_{ik}}$ are written in Hummel's terminology as:

$$f_{ik} = X_{is(k)} \tilde{p}_{ik}^{-\beta_{ik}} \tag{1}$$

It is trivial to show that:

$$\frac{\partial f_{ik}}{\partial \tilde{p}_{ik}} \frac{\tilde{p}_{ik}}{f_{ik}} = -\beta_{ik}$$

Then

- If $\beta_{ik} = 0$, then $p_{ik} = (1 + X_{is(k)})\tilde{p}_{ik}$: Only ad-valorem transport costs
- If $\beta_{ik} = 1$, then $p_{ik} = \tilde{p}_{ik} + X_{is(k)}$: Only additive costs

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This suggests that, the closer β_{ik} to 1, the more prevalent additive costs in total transport costs. Can β_{ik} be related to the share of additive costs in total transport costs? The answer is positive. To show this clearly, start from:

$$f_{ik} = \frac{p_{ik} - \tilde{p_{ik}}}{\tilde{p}_{ik}}$$
 with :
$$p_{ik} = \tau_{is(k)} \tilde{p}_{ik} + t_{is(k)}$$

assuming that transport costs decompose in two components, additive transport costs $t_{is(k)}$ and multiplicative costs (ad-valorem) $\tau_{is(k)}$, supposed to be identical in the product-dimension for any k product within the 3-digit classification s it belongs to.

This gives:

$$f_{ik} = \frac{(\tau_{is(k)} - 1)\tilde{p}_{ik} + t_{is(k)}}{\tilde{p}_{ik}}$$

From this, we have

$$\frac{\partial f_{ik}}{\partial \tilde{p}_{ik}} = \frac{(\tau_{is(k)} - 1)\tilde{p}_{ik} - ((\tau_{is(k)} - 1)\tilde{p}_{ik} + t_{is(k)})}{\tilde{p}_{ik}^2}$$

$$= \frac{-t_{is(k)}}{\tilde{p}_{ik}^2}$$

Hence

$$\frac{\partial f_{ik}}{\partial \tilde{p}_{ik}} \frac{\tilde{p}_{ik}}{f_{ik}} = \frac{-t_{is(k)}}{(\tau_{is(k)} - 1)\tilde{p}_{ik} + t_{is(k)}}$$
$$= \frac{-\frac{t_{is(k)}}{\tilde{p}_{ik}}}{\tau_{is(k)} - 1 + \frac{t_{ik}}{\tilde{p}_{ik}}}$$

This shows that β_{ik} can be interpreted as the share of additive costs in total transport costs:

$$\beta_{ik} = \frac{\frac{t_{is(k)}}{\tilde{p}_{ik}}}{\tau_{is(k)} - 1 + \frac{t_{is(k)}}{\tilde{p}_{is(k)}}}$$

1.2 Coming back to the Referee's 1 concern

In italics, I report the Referee's comment. Into brackets in bold characters inserted into the referee's statement, my comment.

Using the notation of the authors, they are intreated in identifying the share of the specific cost in the total transport cost. Namely,

or,
$$\frac{\frac{\frac{t_{is(k)}}{\tilde{p}_{ik}}}{\tau_{is(k)} - 1 + \frac{t_{is(k)}}{\tilde{p}_{is(k)}}}}{\tau_{is(k)} - 1)\tilde{p}_{is(k)} + t_{is(k)}}$$

The way they approach the problem is that they assume that (a) $\tau_{ik} = \tau_i \tau_k$, (b) $t_{ik} = t_i + t_k$, and (c) t_k and τ_k are uniform across products within industry s. After imposing these assumptions, they estimate the following specification

$$\ln\left(\frac{p_{ik}}{\widetilde{p}_{ik}} - 1\right) = \ln\left(\tau_i \times \tau_{s(k)} - 1 + \frac{t_i + t_{s(k)}}{\widetilde{p}_{ik}}\right) + \epsilon_{ik}$$
 (2)

in which τ_i , $\tau_{s(k)}$, t_i , and $t_{s(k)}$ are identified as fixed effects coefficients. In my opinion this choice of strategy is quite sub-optimal, as (i) it relies on the strong assumptions highlighted above, (ii) it is computationally expensive as noted by the authors on multiple occasions, and (iii) it is subject to an endogeneity problem, which the authors disregard with one sentence, but which is rather detrimental in my opinion.

The three points raised by the referee are all equally important, and we answer separately to each of them below.

(i) On the assumptions underlining our empirical approach Our main empirical equation and its underlying assumptions regarding the separability of transport costs between their country- and product-level components draw on the one proposed by Irarrazabal, Moxnes and Opromolla (the Review of Economics and Statistics, 2015) to estimate the share of additive costs in a firm-level context. It relies on a simple theoretical framework with minimal assumptions, and is compatible with most approaches within the so-called category of "New Trade Theories". Not sure of what it means? More importantly, this formulation allows us recovering explicitly the levels of, respectively, additive and multiplicative costs. Despite its formal elegance and simplicity, this is not possible in such a straightforward manner with the Hummels' methodology, which only recovers the share of additive in total transport costs. elaborate on this in the Big Picture part.

Nevertheless, to take full account of the referee's remark, we decided run an additional set of estimations based on the Hummel's methodogy as proposed by the referee, based on Equation (3). This is developed in Section XX of this letter.

We need to explain why not in the main text, but in the (online?) appendix

- (ii) On the use of non-linear least squares (NLS) As highlighted by the referee, our estimated equation imposes to use non-linear estimation methods, such as Non-Linear Least Squares. However, even with another formulation, such as the one suggested by the referee in Equation (3), we would still be constrained to resort to non-linear estimators. This is due to the restrictions imposed ex-ante on parameters, i.e. $\tau \geq 1$ and $t \geq 0$, the latter meaning simply we constrain both types of trade costs to be non-negative. Without these restrictions, standard linear, least squares estimates often deliver aberrant values with more than mild quality-of-fit [insert examples here] We do acknowledge this is a very important point, which was not made clear enough in the initial version, and did our best to make the pint clear in the revised version [see page XX : XX insert quote XX].
- (iii) Endogeneity problem Indeed, this is a very important point. The referee states that, based on theoretical insights by Melitz (Econometrica, 2003) or Baldwin and Harrigan (AER, 2011), $1/\tilde{p}_{ik}$ is correlated in one direction on another with residuals ϵ_{ik} . In other words, more productive firms and/or firms selling high-quality products will charge higher prices, all other things equal in our case, for a given country-product pair. We obviously do not question this conceptual issue. However, it is worth noting that a good deal of the bias (actually, the part relating to the quality effect) is going to appear identically in the CIF (p) and the FAS (\tilde{p}) prices. Consequently, since our dependent variable is based on a ratio between the former and the latter, the (reverse causality) bias cancels out. That said, remains the possibility that bigger firms may impact transport costs, due to their ability of bargaining discounts for larger shipped volumes.

Following the referee's advice, we decided therefore to provide some IV-estimates to provide a clean assessment of the size of the potential bias.

careful, there is two points regarding endogeneity: (i), we should estimate the β according to the referee's method based on the intrumented fas price (at the HS8 level, if tax duty are available at this disaggregation level) - WE HAVE NOT DONE THAT; (ii), if we maintain our empirical strategy (which we do), we should instrument the fas price at the 5-digit level - WHICH WE ARE TRYING TO DO.

XXX At some point, explain HS10 duty do not exist, contrary to what the referee asserts. At best, it was HS6 or HS8 XXX

1.3 Exploring Referee's alternative functional form

A more natural approach is what the authors, at some point, refer to as the Hummel's Methodology. That is, one can alternatively estimate the share of the additive component as:

$$\frac{t_{ik}}{(\tau_{ik} - 1)\tilde{p}_{ik} + t_{ik}} = \beta_{ik}$$

where β_{ik} is the elasticity of transport costs w.r.t. unit price [in absolute value, see Equation 1]. Given the authors' objective and the data they are using, β can be separately estimated for each industry-country pair using the following regression:

$$\ln f_{ikd} = \beta_{is(k)} \ln \tilde{p}_{ikd} + \text{Controls}_{ikd} + \epsilon_{ikd}$$
 (3)

where d denotes the US district of entry and k denotes an HS10 product. The identification of β_{ik} , in this case, would rely on the across HS10 product and district-of-entry variation in f_{ik} and p_{ik} . Estimating the above equation would obviously require that the authors do not aggregate up the raw Census data across all districts and all 10-digit products pertaining to the same 5-digit category.

The first advantage of this so-called Hummel's Approach is that the above regression can be estimated separately for various country-industry pairs, without imposing Assumptions (a) and (b), outlined above.

I report here the referee's footnote: Should we deal with this? If he/she is not convinced because small sub-sample, do it on a much larger sample? This would better convince him that the separability assumption is not an issue.: The authors do check the robustness of their results w.r.t. the separability assumption, but this only done for a small sub-sample.

There is also a point here, about the degree of sectoral classification. In our paper, k = 5 digit and s(k) = 3 digit. He/she suggests that, in the estimated equation, k = 10 digit and s(k) = 5 digit. Which means, having an estimated β specific to the origin country-5-digit level. I need to have a refresher on this: What have we done finally? and why?

XXX Say something about the fact that in the original US-custom data, the finest degree of sectoral classification is 8-digit, not 10? XXX

1.3.1 What we do

Our estimated equation is written as Equation (2) with s=3 (or 4) digit and k=5 digit (based on Hummel's original dataset from 1974-2004). We thus exploit the variability of transport costs between countries and between 3-digit sectors (conditional on a year and a transport mode, air or vessel). To sum up our methodology:

• Estimating Equation 2 provides us with estimates of \hat{t}_i , $\hat{t}_{s(k)}$, $\hat{\tau}_i$, $\hat{\tau}_{s(k)}$.

• We rebuild

$$\hat{t}_{is(k)} = \hat{t}_i + \hat{t}_{s(k)}
\hat{\tau}_{is(k)} = \hat{\tau}_i \times \hat{\tau}_{s(k)}$$

- We deduce the weighted average value of each component \bar{t} , $\bar{\tau}$ by year and transport mode, the weighting scheme being the relative value of the flows for each i, s flow, as well as the median, the maximum and the minimum values.
- With this in hand, we can (among other things) obtain the estimated share of additive costs in total transport costs for each i, k flow:

$$\hat{\beta}_{ik} = \frac{\frac{\hat{t}_{is(k)}}{\hat{p}_{ik}}}{\tau_{is(k)} - 1 + \frac{t_{is(k)}}{\hat{p}_{is(k)}}}$$

1.3.2 What the referee suggests to do

The estimation strategy suggested by the referee starts from Equation (1) linking transport costs and unit prices as assumed in Hummels (2007). As shown in Subsection (1.1), the elasticity of transport costs to unit prices β_{ik} in Equation (1), also corresponds to the share of additive costs in total transport costs. The share of additive costs can hence be encovered by regressing transport costs on unit (ie, fas) prices. Specifically, the referee suggests to run the estimation based on Equation (3).

Precisely, by year and transport mode, this implies running the estimation for each country of origin i and each sector s(k) = 3 digit sector (why 3-digit? and not 5 as suggested by the referee?, exploiting the variability between sub-sectors at the 8 digit level (k) and between ports of entry in the US (d).

1.3.3 Strategy of answer

a) The advantages are not as important as suggested by the referee

Advantage 1: One is not compelled to assume separability between the country-component and the product-component of transport costs.

 \Rightarrow Answer can be in 2 parts: 1) This is not a strong assumption - better convince him/her: Run the robustness to the separability assumption on a larger sample and show that the estimated β is not that different between the two methods. 2) Compare the estimated β between our original method and the referee's one. Where are the results comparing the estimates of the β , in value? I don't find these results anymore...

- Advantage 2: There is a handful of instruments (HS-8 product-specific tariff rates or lagged prices) to instrument fas prices
 - ⇒ Answer: When we instrument fas prices at the 5-digit level using tax duties (still using our own methodology), we do not obtain much different results. But he/she suggests to do it on HS-8 fas prices, not 5-digit prices, and to imply his estimated equation. Have we done that?
- Advantage 3: A more transparent comparison with Hummel (2007): How to answer to this point? Re-read the paper to see if we are clear enough?

b) The costs are high

- Concern 1 The suggested estimation strategy implies having much less data to exploit, for two reasons.
 - 1. Information about the port of entry are only available in the recent years (since when? why? before, we rely on Hummel's data set, but we could buy the original US custom data for 1974-2004? Or even in those dataset it does not exist?). In our view, the historical coverage is interesting per se, as it provides useful insights about how transport costs have evolved over time, and most importantly how the specific values of the additive and ad-valorem transport costs components have evolved over time. Eliminating this dimension of the paper would be detrimental to its value-added.
 - 2. As underlined before, the method is run country by country, and 3-digit sector by 3-digit sector, exploiting the variability within each country-3d sector across 8-d sub-sectors and ports of entry. Yet, it appears that for many couples (country, 3-digit sector), there is too few variability across sub-sectors (even at the HS-6 digit classification) or ports en entry given the number of fixed effects included in the regression, such that estimation can not be run. This can be seen comparing the number of observations by year/ transport mode with our method / with the referee's method reported in Table XXX TO DO. Put it differently, this methodology discards countries which export a limited range of goods to the US and/or which arrive in the USA through the same ports of entry. In this respect, the induced selection bias reduces the general scope of the transport costs estimates.

As a direct consequence of this, for things to be comparable across methods, we re-run our estimation strategy on the same sample of observations as the one used in the referee's method.

- Concern 2 The suggested estimation method implicitly assumes that transport costs of say, tissues, have nothing in common whether those goods comes from France or from Bangladesh; or that transport costs that apply to imported goods from France have no common component across sectors; in both cases, one might view this as a disputable assumption. By contrast, we suppose that transport costs are sector-country specific. FAIRE REFERENCE A DES PAPIERS EN TRADE QUI ONT DES TRADE COSTS Pays-spécifique?
- Concern 3 The suggested estimation method does not allow to recover the values of each component of transport costs separately, but only the relative shares; while our methodology drives an estimate for each component (τ, t) from which we can deduce the relative share of each. In this respect, we gain in generality. **DEEPEN this for the Big picture part**.
- Concern 4 The suggested method features less accuracy in the estimation of the β . Considering the value of the β by itself, there is no criteria to discriminate between the value estimated with our method and the one obtained with the suggested method (when, of course, run on the same sample). Things are more clear-cut in terms of accuracy of the estimation. Specifically, our method yields a more precise estimation of the β than the referee's method. To develop on this, for each year and transport mode:
 - With the referee's method, we estimate one value for the share of additive component beta at the i, s level denoted $\hat{\beta}_{is(k)}^{ref}$ associated with a standard deviation SD_{is} . From this, we can deduce the 5- 95% threshold values through:

$$\hat{\beta}_{is}^{min,ref} = \hat{\beta}_{is(k)}^{ref} - 1.96SD_{is}, \quad \hat{\beta}_{is}^{max,ref} = \hat{\beta}_{is(k)}^{ref} + 1.96SD_{is}$$

- With our method, one estimation allows to calculate each transport cost component \hat{t}_{is} , $\hat{\tau}_{is}$ and an associated $\hat{\beta}_{is}$. We generate a distribution of β through bootstrap method (10,000 random draws), from which we can compute the mean, the median and the 5-95 threshold values for each couple i, s.
- We can then evaluate the accuracy of each estimation method by comparing the distributions of the β . This is reported in the Figures XXX (for Air) and XXX (for Vessel). Our method undoubtedly yields more accurate estimations of the share of additive components, whatever the transport mode considered. For sake of brevity, we report the mean distribution averaged over the period, a similar conclusion applies on a yearly basis. Averaged over the two transport modes? For only one?

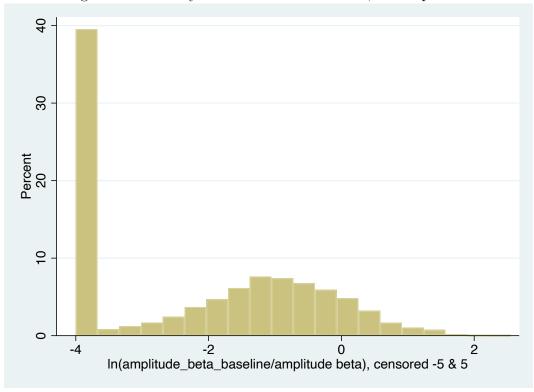


Figure 1: Accuracy of the estimation of the β : Comparison

Figure 1 reports the log of the interval confidence of the β obtained with our methodology (with bootstrap), relative to the one obtained with the referee's method. **average over the years? the transport modes? unclear**. In most cases, the log of the ratio is negative, implying a lower interval confidence of the β estimate with our methodology.

All these elements drive us to maintain our original estimation in the revised version. What do we do with the referee's estimation method? online appendix, Appendix?

1.4 Other comments

If the authors strictly prefer to maintain their current approach, [...] they should address two issues either way:

• The endogeneity problem: quoting Footnote 14 of the paper, the authors are estimating ti and ts(k) as coefficients on the industry or country dummies times $1/\tilde{p}_{ik}$. [...] Based on the productivity-sorting model in Melitz (2003) or the quality-sorting model in Baldwin and Harrigan (2010), $1/\tilde{p}_{ik}$ is either positively or negatively correlated with ϵ_{ik} . So, the NNLS estimates are biased; and the bias has nothing to with the casual versus accounting interpretation

of the estimates. Accordingly, the one-line justification the authors provide to not address the endogeneity problem is far from convincing.

Answer As stated above, we followed the referee's advice by providing some IV-estimates of the fas price to provide a clean assessment of the size of the potential bias in our original methodoly. The IV-strategy is implemented in two steps.

– First-stage equation: Following the referee's advice, we regress the fas price \tilde{p}_{ik} with k=5-digit product classification and i the origin country, on tax duty and lagged fas price according to Equation (XXX). As made clear in the appendix of the revised version (Section XXX - take elements of topo-first-stage there), we run the regression in log level on a yearly basis and by transport mode, consistently with our second-stage empirical strategy.

Develop according to the results.

• The aggregation problem: The original annual Census data reports trade at the origin country-HS10 product-district level of aggregation, whereas the authors are aggregating up the data even further to the origin country-HS5 industry-year level. Such an aggregation comes with strong implicit assumptions and sacrifices a lot of useful variation in the data. The authors are motivating the aggregation by stating that the problem would become computationally expensive without it. But this reasoning brings us back to my original point that the authors can use the Hummel's Methodology to circumvent the computational burden.

Answer It is true that the original annual Census data reports trade at the origin country-HS8 product-district level of aggregation (not HS10) (I am right there?). We hope we have now convinced the referee of the relevance of our empirical method based on Equation (2). In line with the referee's comment though, we could run the estimation by considering k at the HS8 classification level, not 5. Two elements of answer: 1) we can do it on the recent years, 2005-2013, assuming s(k) = 3digitandk = 8 digit. Would take time, but technically feasible. And compare it with what we obtain in our benchmark results with k = 5. Right?; 2) on previous years however, we can't run this estimation, because we take Hummel's database directly, in which the finest degree of sectoral classification is at the 5-digit level. Counter-argument: Yes, but we could buy the original Census data on those years? Answer to the counter-argument No money, but this is not an argument...Better answer in my view: If we follow the referee's advice and run our estimation with k = 8 digit on the years for which we have the data, compare with benchmark k = 5, crossing

fingers for that hopefully, things are not that different. In which case, this would justify NOT wasting time and money on building a new dataset on the previous years. Moreover, sticking to the original Hummel's database is interesting as it eliminates any other difference in the results as the estimation strategy.

1.5 To sum up: What remains to be done

- 1. IV-First-stage equation on fas price at the 8-digit level, on recent years; then, run the estimation of the β according to the referee's approach (considering s(k) at the 3 digit level)
- 2. Run our original estimation method but with k = 8-digit level on recent years for which we have the data. Also with \widetilde{p}_{ik} instrumented as well? To be comparable with the point just above, yes. And compare with the β obtained above (point 1).
- 3. A table comparing the number of observations / countries / sectors 3D by year / transport mode when we do our empirical strategy vs the referee's strategy. Points (1, 2 and 3) aim at providing answers to the general comment of the referee's Critique 1.
- 4. Comparison of the results of the t, τ, β obtained with our estimation method, for k = 5 (what we have) and for k = 8 (Referee's point 2), for recent years No IV here?
- 5. IV-First-stage equation on fas price at the 5-digit level, for all years; then 2d-stage estimate of t, τ, β with our methodology; compare with our results obtained in the submitted version (Referee's point 1).

2 Critique 2: Calculation of Unit Prices

My second critique concerns the way the authors are calculating the unit prices. The Census data reports the quantity of goods per observation. So, the authors can calculate the unit price as Value/Quantity, which is consistent with how price is modeled in standard trade models. Instead, the authors calculate unit price as Value/Weight. This used to be a common exercise in the past where many datasets did not report Quantity. But, given their data, there is no justification for the authors to calculate the prices this way.

The referee is right in the sense that Census data do report the quantity of goods. However, this information is not mode-specific, which is incompatible with

our empirical strategy of estimation transport costs conditional on the transport mode, similarly as in Hummels (2004). This explains why we cannot calculate the unit price as suggested by the referee. We make this point clear in Footnote XXX

EN MEME TEMPS: Si on écarte de l'analyse les flux qui sont passés à la fois par bateau et par air, en ne gardant que les flux qui ont fait l'un ou l'autre, ne peut-on pas se dire que la quantité (pas mode-spécifique) a totalement voyage par vessel (si le flux indique qqch pour ves-val) ou par avion (s'il indique qqch pour air-val)? Et à ce moment là, on peut répondre "vraiment" à sa critique?

At a more fundamental level, one might argue that considering the unit price as value/weight is relevant in our setting where we seek to identify transport costs. For instance, it makes sense that the shipment costs of cars do depend not only on the quantity of cars exported, but on the weight it makes, which is related to the volume it takes in the plane or the vessel. Do we have evidence, even anecdotal, on this point? Is it an argument we want to make, See what Lashkaripour says about this point also.

Calculating the unit price as Value/Weight presents the authors with an additional endogenity problem. To elaborate, let $\omega_{ik} = Weight/Quantity$ denote the unit weight of the goods in observation ik. Also let $\hat{p}_{ik} = Value/Quantity$ (unlike what the authors assume) denote standard definition of price. As a consequence, making the link with the fas price we consider in the paper: $\tilde{p}_{ik} = \hat{p}_{ik}/\omega_{ik}$.

This paper is essentially estimating the following equation:

$$\ln\left(\frac{p_{ik}}{\widetilde{p}_{ik}} - 1\right) = \ln\left(\tau_i \times \tau_{s(k)} - 1 + \frac{t_i + t_{s(k)}}{\widehat{p}_{ik}/\omega_{ik}}\right) + \epsilon_{ik}$$

instead of estimating:

$$\ln\left(\frac{p_{ik}}{\widetilde{p}_{ik}} - 1\right) = \ln\left(\tau_i \times \tau_{s(k)} - 1 + \frac{t_i + t_{s(k)}}{\widehat{p}_{ik}}\right) + \epsilon_{ik}$$

There is evidence that (i) ω_{ik} varies significantly within narrowly-defined product categories, and (ii) ω_{ik} is negatively correlated with transport costs. So the way the authors are calculating unit prices and estimating the model creates a new (but avoidable) source of endogeneity.

We thank the referee for pointing out this potential source of bias in our estimates. If we cannot follow the referee's advice be replacing weight by quantity for data availability reasons, we can address his/her concern regarding this as source of endogeneity bias by instrumenting the fas price. il ne faudrait pas dans ce cas mettre de lagged prices, sinon on reintroduit du bruit. Non?

3 Critique 3: Big Picture Implications

My third critique concerns the lack of an exciting punchline. The fact that composition effects have not countervailed the reduction in pure transport costs (at least not as much as previously believed) is an interesting but minor observation. Does this observation revise our understanding of say the gains from trade? Does it shed new light on a puzzle many people are thinking about? One crude suggestion is to see how the reduction in the industry-specific cost terms is related to the industry-level trade elasticities. If the composition effects favor low-elasticity industries, the findings in the paper may have first-order implications for the gains from trade. Another suggestion is to dig deeper into the relative rate at which additive and multiplicative transport costs have declined over time. Since additive transport costs favor rich (high-quality exporting) countries, the disproportionally greater reduction in additive costs can perhaps explain the rise of low-income exporter as documented by Hanson (2012, JEP).

Comments about that

Piste 1 Consider his/her first suggestion. What is the idea? First, the link between gains from trade and trade-elasticity. Am I correct in saying that gains from trade are higher when trade is about low-elasticity goods? The idea being, if national goods are low substitutes, then here are larger gains from trading them. So, if composition effects (trade shifts between sectors) favor low-elasticity sectors, then one might expect high gains from trade. Hummels: trade composition effects matter as they partially offset the reduction in pure transport costs for both air and vessel. Over time, tendency to trade goods more costly to export everything else equal. So, if the referee's assertion is right (trade composition effects favor low-elasticity sectors), then increasing gains from trade. But, we disagree with Hummel's findings (his way of measuring things is inappropriate) and find that trade composition effects do not matter much, at least for air. Meaning that gains from trade are purely due to reduction in transport costs within sector, but not from switch towards low-elasticity sectors. Identify one source of gains from trade, not two.

What to do with this?

Piste 2