

## ***Interactive comment on* “Technical note: Recursive rediscretisation of geo-scientific data in the Modular Earth Submodel System (MESSy)” by P. Jöckel**

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I very much appreciated the attempt to have a rigorous mathematical formulation of the regridding algorithm described in this paper. Nevertheless, the description seems to be misleading in one point. In equation (22), the author claims that  $P_{\vec{n},\vec{m}}$  is the element-wise product of “sub-matrices”  $P_{n_i,m_i}$ ,  $i$  ranging from 1 to  $K$ . But,  $P_{n_i,m_i}$  are elements of the sub-matrices that were not defined explicitly. The right-hand side should be interpreted as the multiplication of the matrix elements  $P_{n_i,m_i}$  corresponding to the vector indices  $(\vec{n}, \vec{m})$  and not as an element-wise multiplication of matrices.

The definitions at the beginning of section 2 may become clearer by explaining  $A \subset R^K$

as a collection of subsets  $A_n$  such that  $\cup A_n = A$  and  $A_i \cap A_j = \emptyset$ . The measure should be the Lebesgue measure.

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