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Michael N. Bleicher* (bleicher@math.wisc.edu), PMB 4369 PO BOX 2428, Pensacola, FL 32513. *Efficient partitioning of the plane or a fixed domain into cells of given area.* Preliminary report.

It is frequently necessary to divide a domain into a number of cells (rooms) where the separation cost varies according to which cells are juxtaposed. We present a number of necessary conditions for a configuration to be optimal. One must know the cost of separating any two cells from one another. If it is a free standing construction without a given domain one must know the cost of separating each cell from the exterior of the collection. Some examples will also be given. (Received January 17, 2016)