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Max D. Engelstein* (max.engelstein@yale.edu). *Least Perimeter Partitions of the Sphere into Equal Areas.*

We discuss least perimeter partitions of the sphere into n equal areas (where results are known only for $n = 2, 3$ and 12). Specifically we will discuss new results and methods in the $n = 4$ case. (Received September 09, 2008)