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Jimmy Petean* (jimmy@ciimat.mx), Callejon Jalisco s/n, 36000 Guanajuato, GTO, Mexico. *The Yamabe equation on products.*

We will discuss some results on the multiplicity of solutions of the Yamabe equation on Riemannian products and use this to try to understand the Yamabe constants of certain products which are basic for the understanding of the Yamabe invariant of manifolds. (Received April 06, 2010)