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On the Yamabe invariant of products

The Yamabe invariant of a closed manifold appears naturally when studying the Hilbert–Einstein functional, the integral of the scalar curvature over the manifold. Computations of the invariant are difficult, in particular when it is positive (and there is no unicity of constant scalar curvature metrics on a conformal class). In this talk I will survey what is known about the computations and discuss some new results (joint work with K. Akutagawa and L. Floti) concerned with the Yamabe constants of Riemannian products.