



MAFIA - the seminar you can't refuse

Eigenvalue asymptotics for two dimensional magnetic Dirac operators

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Abstract: In this talk, we present results on the eigenvalue distribution for perturbed magnetic Dirac operators in two dimensions. We derive third-order asymptotic formulas that incorporate a geometric property of the perturbation's support. Notably, our approach allows us to consider some perturbations that do not necessarily have a fixed sign, which is one the main novelties of our work. This is part of a joint work Vincent Bruneau.