
WEYL FORMULAE FOR SOME SINGULAR METRICS
WITH APPLICATION TO ACOUSTIC MODES IN GAS
GIANTS

Charlotte Dietze

Universität München

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We prove eigenvalue asymptotics of the Laplace-Beltrami operator for certain singular Riemannian metrics. This is motivated by the study of propagation of soundwaves in gas planets. This is joint work with Yves Colin de Verdière, Maarten de Hoop and Emmanuel Trélat.