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Fermion field evolution in regular black holes

Several regular black holes solutions have been constructed since 1968 afther Bardeen's proposal of coupling gravity with external form of matter. In the present work a detailed study of massless fermion perturbations outside somke regular black hole solutions is carried out. We present the object picture of the complete time evolution and compute the quasinormal frecuencies at intermediate times using two diferent methods: a semianalytical WKB expansion at sixth order beyond eikonal approximation and a numerical fitting of the time domain integration data. We show that both methods give close results.

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