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Kerr-de Sitter and algebraically special metrics with prescribed asymptotics in all dimensions

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We provide a classification of arbitrary dimensional $(\Lambda > 0)$-vacuum metrics corresponding to type II metrics in the Coley et al. classification of Weyl tensors, which also admit a conformal extension with a locally conformally flat boundary. These metrics are found to coincide with a previously known class that generalizes Kerr-de Sitter metrics. To identify both classes, we conduct a detailed analysis of the fall-off behavior of the Weyl tensor and its relation to the asymptotic initial data.

Primary authors: PEON NIETO, CARLOS (PROFESOR AYUDANTE DOCTOR); MARS, Marc

Presenter: PEON NIETO, CARLOS (PROFESOR AYUDANTE DOCTOR)