

CCLP solution obtained from a modified Plebański-Demiański ansatz

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The Chong-Cvetič-Lü-Pope (CCLP) geometry is the only known rotating charged black hole in five dimensions. It solves the Einstein-Maxwell-Chern-Simons equations for a special value of the Chern-Simons coupling constant; it was obtained in the context of five-dimensional minimal gauged supergravity. We will show that the CCLP solution can be achieved by means of a proper modification of the 5D Plebański-Demiański ansatz. This strategy could facilitate the search for other solutions of this kind.