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**Title:** An improved form of type D black holes

**Abstract:** The black-hole spacetimes of algebraic type D can be identified in the broad Plebański–Demiański class of metrics. Although this class plays a key role in the analysis of exact black hole solutions, its description is still not fully satisfactory. This talk will present a new and more transparent form of the Plebański–Demiański metric which we introduced in our new publication, and its physical interpretation.