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**Dale Frymark\*** ([dale@math.su.se](mailto:dale@math.su.se)), Department of Mathematics, Stockholm University, Kräftriket 6, 106 91 Stockholm, Sweden, and **Annemarie Luger**. *Boundary Triples and Weyl  $m$ -functions for Powers of the Jacobi Differential Operator*. Preliminary report.

We present a scheme for using the method of boundary triples to approach the spectral theory of powers of the classical Jacobi differential operator. Operations in the boundary triple are regularizations of quasi-derivatives that are not generated by deficiency elements, making calculations much more accessible. The associated Weyl  $m$ -function for the  $n$ -th power of the operator, a  $2n \times 2n$  matrix-valued Nevanlinna-Herglotz function, will be also be presented. (Received September 17, 2019)