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Holography for fields with different spins in rotating black holes (I)

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We find the explicit form of two-point functions for the conformal energy momentum operators as well as conformal spin-one operators on the near horizon of a near extremal Kerr black hole. We introduce the appropriate boundary actions for the spin-two and the vector fields near the horizon of near extremal Kerr black hole. We find the two-point function for the conformal energy-momentum operators and the spin-one operators in Kerr/CFT correspondence by finding the variation of the proper boundary actions. We find agreement between the two-point functions and the correlators of the dual conformal field theory to the Kerr black hole.

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