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Dispersion relations in Kerr-AdS/CFT holography

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We probe the five-dimensional Kerr-AdS space time by pulsating strings. First we find particular pulsating string solutions and then semi-classically quantize the theory. For the string with large values of energy, we use the Bohr-Sommerfeld analysis to find the energy of the string as a function of a large quantum number. We also consider the case of constructing a quantum metric tensor.

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