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Bulk metric reconstruction by pole-skipping points

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We propose that the exterior of a static, planar symmetric black hole in the bulk, can be analytically reconstructed from the infinite pole-skipping points of the boundary Green's function for a probe scalar operator by solving a set of linear equations. Furthermore, our reconstruction method reveals that only a subset of pole-skipping points are independent, while most are governed by an equal number of homogeneous polynomial identities.

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