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Prescribed curvature measure problem in hyperbolic space

The problem of the prescribed curvature measure is one of the important problems in differential geometry and nonlinear partial differential equations. In this talk, I will talk about prescribed curvature measure problem in hyperbolic space. We establish the existence and regularity of solutions to the problem. The key is the C^2 regularity estimates for solutions to the corresponding fully nonlinear PDE in the hyperbolic space.