

***THE LOEWNER-NIRENBERG PROBLEM IN SINGULAR
DOMAINS AND CONES***

**Speaker: WeiMing Shen
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Time: Tue, Apr 27, 15:00-17:00

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Abstract: First, we will talk about asymptotic behaviors of solutions of the Loewner-Nirenberg problem in singular domains and prove that the solutions are well approximated by the corresponding solutions in tangent cones at singular points on the boundary. Then we talk about asymptotic behaviors of solutions to the Loewner-Nirenberg problem in finite cones and establish optimal asymptotic expansions in terms of the corresponding solutions in infinite cones. The spherical domains over which cones are formed are allowed to have singularities. This talk is based on joint works with Professor Qing Han, and with Professor Qing Han, Xumin Jiang.