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Abstracts of Short Communications and Posters

Section:

8. Analysis

1991 MS Classification: 20,30
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Discrete groups and dense groups

Several new discreteness cirterions for subgroups in $SL(2, C)$ is establisched It is proved that a dense subgroup in $SL(2, C)$ contains a dense subgroup generated by two elements, to answer Jørgensen's problem. For the isometry group of pinehed Hadamard manifold it is proved that a nonelementary subgroup with weaker bounded torsion is discrete if and only if all of its two loxodromic generator subgroups are discrete; and that each nonelementary subgroup has a loxodromic element generating system. These results are joint work with Xiantao Wang.

References: **X. Wang** and **W. Yang**: *Proc. of Fifth Intern. Collog. on Co, plex Analysis*, (1997), 355-360: *Math. Proc. Camb. Phi. Soc.* **123** (1998) no. 2; Isometry groups of Hadamard manifolds, accepted to appear by *Complex Variables.*