

Two generator subgroups of $PU(2,1)$ with parabolic elements

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The goal of this talk is to discuss the subset P of the $PU(2,1)$ -representation variety of the fundamental group of the 3-punctured sphere containing those representations mapping peripheral loops to parabolics. In particular, we will provide a coordinate system on this subset in which several previously known families of examples are very simply described, and exhibit new interesting families of groups. Our interest in this set comes from the fact that it is a piece of the boundary of the complex hyperbolic quasi-Fuchsian space of the rank two free group. This is joint work with John Parker.