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$\mathbb{H}^{p,q}$ -convex cocompactness and higher higher Teichmüller spaces

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Higher Teichmüller theory studies connected components consisting entirely of discrete and faithful representations inside G -character varieties of closed surface groups, where G is a higher-rank real semisimple Lie group. We prove that such connected components also exist for fundamental groups of higher-dimensional closed manifolds when $G = \mathrm{SO}(p, q + 1)$; the corresponding representations are $\mathbb{H}^{p,q}$ -convex cocompact where $\mathbb{H}^{p,q}$ is the pseudo-Riemannian analogue of the real hyperbolic space in signature (p, q) . This is joint work with J. Beyrer.

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