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Crooked surfaces in the Einstein Universe

Crooked surfaces serve as building blocks (more accurately, building walls) for proper actions on the Einstein Universe, denoted Ein_3 , which is the conformal compactification of Minkowski spacetime. There is an interesting interaction between Ein_3 and RP^3 , via the linear symplectic structure on R^4 . We will discuss joint work in progress with Jean-Philippe Burelle and Fanny Kassel.