Constant Angle Surfaces in $H^2 \times R$

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Abstract

In last years, the study of the geometry of surfaces in the two product spaces $S^2 \times R$ and $H^2 \times R$ is developing by a great number of mathematicians; see for example the papers on minimal or constant mean curvature surfaces. In [?] the authors studied constant angle surfaces in $S^2 \times R$, namely those surfaces for which the unit normal makes a constant angle with the tangent direction to R. In this paper we propose to find constant angle surfaces in $H^2 \times R$, where H^2 is the hyperbolic plane.

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[1]The poster will be presented by the second author (Marian Ioan Munteanu)