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Angling hydraulic jumps ANDREW BELMONTE, W. G. Pritchard Labs, Dept of Mathematics, Penn State, JEAN-LUC THIFFEAULT, Dept of Mathematics, University of Wisconsin — We present an experimental and mathematical study of the normal impact of a jet onto an inclined solid surface, focusing on the characteristics of the hydraulic jump. The angle of the surface is varied between vertical and horizontal positions, using both flat and curved (patterned) surfaces. Comparisons of the outer envelope of the hydraulic jump are made with the ballistic theory and the model of Edwards, Howison, Ockendon, & Ockendon.

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