

## Problem on non-dependent of curl distance to initial angular velocity of stone

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There are two different theory based on anisotropy of friction between left and right or between front and back for curl mechanism. However, more difficult problem is non-dependency of curl distance to angular velocity of stone.

From analysis of stone motion, we thought that transversal movement of stone gives curl distance. Self-rotation gives anisotropy of friction between left and right, and decline the stone goes to transversal movement. Namely, stone goes to the declined direction, gives curl distance. Therefore curl distance is not depend on angular velocity.