## Abstract Submitted for the MAR13 Meeting of The American Physical Society

**Do Ion Channels Spin?** ROBERT SHAW, None — Ionic current flowing through a membrane pore with a helical architecture may impart considerable torque to the pore structure itself. If the channel protein is free to rotate, it will spin at significant speeds. Order of magnitude estimates of possible rotation rates are presented, as well as a few arguments why such motion could improve ion transport.

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