



## **The origin of the 100ky ice sheet cycle in the Pleistocene.**

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The response of a simple ice sheet model proposed by Birchfield forced by periodic changes in the climate point exhibits a bifurcation when certain dimensionless parameters undergo realistic changes. It is postulated that this bifurcation may explain the initiation of large 100ky cycles ca. 700ky - 1000ky ago following smaller, higher frequency ice sheet cycles before that time.