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**Tanya Schmäh\*** (tschmah@uottawa.ca) and **Cristina Stoica** (cstoica@wlu.ca). *Controlling rigid body attitude via shape change*. Preliminary report.

Satellite attitude control is typically achieved via reaction wheels (i.e. rotors) or magnets, which leave the moment of inertia fixed. We investigate an alternative control mechanism: sliding point masses, which change the moment of inertia and thus the angular velocity, while angular momentum remains fixed and nonzero. (Received August 21, 2018)