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Manuele Santoprete* (msantopr@wlu.ca), Department of Mathematics, Wilfrid Laurier university, 75 University Avenue West, Waterloo, Ontario N2L 3C5, and **Marshall Hampton** and **Gareth Roberts**. *Relative equilibria in the four vortex problem with two pairs of equal vorticities*. Preliminary report.

The N-vortex problem concerns the dynamics of N point vortices moving in the plane. Of particular interest in this problem are solutions that appear fixed when viewed in an uniformly rotating frame. Such solutions are called relative equilibria. In this presentation we describe a complete classification of the relative equilibria in the four vortex problem with two pairs of equal vorticities. (Received August 07, 2011)