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Madhav V Nori* (nori@math.uchicago.edu), The University of Chicago, Department of Mathematics, 5734 University Avenue, Chicago, IL 60637. *Mixed Tate Motives*. Preliminary report.

There is a construction of a graded Hopf algebra through Hyperplane arrangements due to Beilinson, Goncharov, Varchenko and Schectman that appears in the Grothendieck Festschrift volume. We will formalise this construction and show that it does indeed give rise to a category of mixed Tate motives. (Received August 18, 2005)