## THE WORLDWIDE CENTER OF MATHEMATICS

## On Beilinson's "How to glue perverse sheaves"

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Friday, August 13, 2010
Coffee, tea, cookies: 3:30pm
Talk: 4-5pm
929 Massachusetts Ave., Cambridge, Suite #102

**Abstract**: The titular, foundational work of Beilinson not only gives a technique for gluing perverse sheaves but also implicitly contains constructions of the nearby and vanishing cycles functors of perverse sheaves. These constructions are completely elementary and show that these functors preserve perversity and respect Verdier duality on perverse sheaves. The work also defines a new, "maximal extension" functor, which is left mysterious aside from its role in the gluing theorem. In this talk, we will attempt to clarify some of these notions and results, and present details of some of the constructions and theorems.

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All attendees will need to sign a release form, as the lecture will be recorded for distribution on the Web.