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P-functors and cyclic covers

Abstract

I will begin by reviewing the geometry of a cyclic cover branched in a divisor. I will then explain how it gives the first ever example of a non-split P^n -functor. If there is time, I will also explain the connection with the notion of a perverse schober introduced recently by Kapranov and Schechtmann. This is a joint work with Rina Anno (Kansas).