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## Window shifts, flop equivalences and **Grassmannian twists**

Will Donovan, Ed Segal

(Submitted on 1 Jun 2012 (v1), last revised 2 Oct 2012 (this version, v2))

We introduce a new class of autoequivalences that act on the derived categories of certain vector bundles over Grassmannians. These autoequivalences arise from Grassmannian flops: they generalize Seidel-Thomas spherical twists, which can be seen as arising from standard flops. We first give a simple algebraic construction, which is well-suited to explicit computations. We then give a geometric construction using spherical functors which we prove is equivalent.

Comments: Improved structure and formatting. Minor edits to some explanations. Added

acknowledgements and addresses. 38 pages, 7 figures

Algebraic Geometry (math.AG); Representation Theory (math.RT) Subjects:

MSC classes: 14F05, 18E30 (Primary) 14M15 (Secondary)

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## Submission history

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