

# Turkish Journal of Mathematics

Turkish Journal

of

Mathematics

Braids and symplectic four-manifolds with abelian fundamental group

Paul Seidel

CMAT, Ecole Polytechnique, Palaiseau, FRANCE

&

School of Mathematics, Institute for Advanced Study, Princeton, NJ  
08540, US

E-mail address: seidel@math.polytechnique.fr

 [Keywords](#)  
 [Authors](#)

**Abstract:** We explain how a version of Floer homology can be used as an invariant of symplectic manifolds with  $b_1 > 0$ . As a concrete example, we look at four-manifolds produced from braids by a surgery construction. The outcome shows that the invariant is nontrivial; however, it is an open question whether it is stronger than the known ones.



[math@tubitak.gov.tr](mailto:math@tubitak.gov.tr)

[Scientific Journals Home  
Page](#)

---

Turk. J. Math., **26**, (2002), 93-100.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Math., vol.26, iss.1.](#)