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Laurentiu G Maxim* (laurentiu.maxim@gmail.com), 480 Lincoln Drive, Madison, WI 53706,
and **Nero Budur** and **Markus Banagl**. *Intersection spaces, perverse sheaves and type IIB string theory.*

The method of intersection spaces associates rational Poincaré complexes to singular stratified spaces. For a complex projective hypersurface with only isolated singularities, we show that the cohomology of the associated intersection space is the hypercohomology of a perverse sheaf, the intersection space complex, on the hypersurface. We will discuss properties of the intersection space complex, such as self-duality, its Betti numbers and mixed Hodge structures on its hypercohomology groups. This is joint work with Banagl and Budur. (Received January 10, 2014)