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*The Illumination Conjecture for convex bodies with many symmetries*

We will show how to verify the Hadwiger-Boltyanski Illumination Conjecture (along with its equality cases) for 1-symmetric convex bodies of all dimensions (that is, convex bodies with the symmetries of the cube) and some cases of 1-unconditional convex bodies as well (that is, convex bodies with the symmetries of a rectangular box).

This is joint work with Wen Rui Sun.