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Cylinders in del Pezzo surfaces

For an ample divisor H on a del Pezzo surface S , an H -polar cylinder on a del Pezzo surface S is the complement of the support of an effective \mathbb{Q} -divisor D such that D is \mathbb{Q} -linearly equivalent to H and $S \setminus \text{Supp}(D)$ is isomorphic to $\mathbb{A}^1 \times Z$ for some affine variety Z . In this talk I present various cylinders on del Pezzo surfaces and explain why some ample classes do not carry cylinders. This is a joint work with I. Cheltsov and J. Won.