

On Enriques surfaces with four cusps

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One can show that maximal number of A_2 -configurations on an Enriques surface is four. In my talk I will classify all Enriques surfaces with four A_2 -configurations. In particular I will show that they form two families in the moduli of Enriques surfaces. In particular, I will construct open Enriques surfaces with fundamental groups $(\mathbb{Z}/3\mathbb{Z}) \oplus (\mathbb{Z}/2\mathbb{Z})^{\oplus 2}$ and $\mathbb{Z}/6\mathbb{Z}$, completing the picture of the A_2 -case and answering a question put by Keum and Zhang.