

Eine Woche, ein Beispiel

11.30 Coble cubic

I heard about this from Franco Giovenzana's talk, and record it here for future use.

Ref:

[ABGO25]: Daniele Agostini, Pietro Beri, Franco Giovenzana, and Ángel David Ríos Ortiz. "Coble Duality for Jacobian Kummer Fourfolds." arXiv:2505.14490. Preprint, arXiv, May 26, 2025.
<https://doi.org/10.48550/arXiv.2505.14490>.

A : abelian surface over \mathbb{C}
 $X = \text{Kum}_n(A)$: $= \text{Ker} [\bar{s}: A^{[n+1]} \rightarrow A]$ a sm $2n$ -dim hyperkähler variety

$$\begin{aligned} 2\langle \Theta \rangle &:= \mu_2(\Theta) \in \text{Pic}(X) \\ D &= 2\mu_2(\Theta) - \delta \end{aligned} \quad 3\langle \Theta \rangle \in \text{Pic}(A)$$

[ABGO, Thm B]

