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Degenerations and regenerations - and applications to $K3$ -surfaces

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ABSTRACT

In the talk we shall show two different $K3$ -surfaces with equisingular branch curves and different related fundamental groups. We shall use degenerations of the two surfaces to a union of planes, one called "The Pillow" and the other one called "The Magician" and the respective regeneration of the braid monodromy of the branch curves of the degeneration (a union of lines) to the braid monodromy of the singular branch curves of the original surfaces.