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Geometric Engineering of $SU(3) SU(2)$ through Elliptic Fibrations: Resolutions and Flops.

I will review the different ways to engineer a $SU(2)SU(3)$ gauge theory using elliptic fibrations and discuss the resulting geometry. In particular, I will present many new non-Kodaira fibers that naturally occur in this setting. I will also discuss the network of flops between different nonsingular elliptic fibrations sharing the same Jacobian (Weierstrass model).