The Sarkisov program for Mori fibered lc Calabi--Yau pairs

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A Mori fibered Calabi-Yau pair (X,D) is a pair of a normal variety X and a reduced divisor D such that K+D is a Cartier divisor linearly equivalent to 0, and such that X itself has a structure of Mori fibre space. Such a pair is the end product of two distinct Minimal Model Programs: on the one hand, it is a K+D-minimal model, and on the other one it is the end product of a classical MMP. In this talk, I will present a general Sarkisov-type factorisation theorem for birational maps between Mori fibered Calabi-Yau pairs, and I will discuss the singularities of 3-fold Calabi-Yau pairs