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Leading talk K->pipi decays and the Delta I = 1/2 rule

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CP violation was discovered in Kaon decays 50 years ago but still remains a challenge for theorists. A complete theoretical description will be a crucial test for the Standard Model and will provide us with a rich source of information on new physics theories. In the past recent years, realistic computations of A2, the amplitude of K->(pipi)_(I=2), have become possible and reached a level of 10% accuracy. I will explain how this computation has become possible and will report on the other channel, much more challenging, in which the two-pion state has isospin I=0. I will also report on a possible explanation for the Delta I = 1/2 rule, the fact the magnitude of the amplitude A0 is around 20 times larger than the one of A2, although a naive computation only gives a factor of 2.

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