Fine statistical properties of a smooth Anosov flow may be studied through Ruelle resonances. These resonances may be described as the zeroes of a dynamical determinant, i.e. an entire function defined in
terms of the periodic data of the flow. We are interested in an other relationship between Ruelle resonances and periodic data of the flow: a trace formula conjectured by Dyatlov and Zworski. This formula is known to be true for real-analytic Anosov flows by a result of Fried, we will see how this hypothesis can be weakened.