

## **Potential force observed in market dynamics III– Renormalization based on moving average**

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In this third session of the potential force approach to the market prices, we discuss about very large scale price dynamics often discussed in the framework of macro-economics. We consider the theoretical analysis of repeating the moving average procedures. It is shown that there is a kind of renormalization relation between the  $n$ -th averaged market prices and the  $n+1$  th averaged prices. In the case that additive noises are small and the potential coefficient is a constant, there exist renormalization invariant solutions that describe ordinary exponential inflations, hyper-exponential inflations and stabilization of inflations.