



量子物理学・ナノサイエンス第 153 回セミナー

## Renormalization-group limit cycle in Efimov physics

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- 日程** : 5 月 24 日 (火) 14:00–15:30
- 場所** : 本館 2 階 H284B 物理学系輪講室

### 概 要

Efimov physics is famous for its self-similar energy spectrum, where strongly interacting few particles form an infinite series of cluster states that obey the discrete scale invariance. Because of the self similarity, universality of the Efimov physics is characterized by the renormalization-group limit cycle where the renormalization-group flow forms a periodic circle rather than converges to a fixed point. In this seminar, we present a close connection between the universal properties of the Efimov physics and geometrical properties of the limit cycle. In particular, the one-to-two correspondence of the numbers of trimers and tetramers would be identified with topological numbers in terms of the limit cycle.

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