



## “Defects in supersymmetric field theories”

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### 日程(Dates), 場所(Place)

10/24 (月) Oct. 24 (Mon) 10:45–12:25, 13:45–15:25, 15:40–17:20 (zoom)

10/28 (金) Oct. 28 (Fri) 10:45–12:25, 13:45–15:25, 15:40–17:20 (zoom)

10/31 (月) Oct. 31 (Mon) 10:45–12:25, 13:45–14:45 (セミナー) (zoom)

zoomは以下で事前登録してください。

<https://zoom.us/meeting/register/tJ0ldO2ppzsjGN0z95h7xNXyQ3xew2k0B3wh>



### <講義概要, Abstract>

Supersymmetry is one of the important notion in particle physics. It appears in many areas not only in particle physics but also theoretical physics and mathematical physics. In this lecture, we focus on the quantum properties of supersymmetric field theory, which are reachable exactly via supersymmetry, and discuss defects which are objects to clarify the properties. After outlining the basics of quantum field theory and supersymmetry, we understand the low energy behavior of four-dimensional supersymmetric gauge theory. In the latter half, we discuss the supersymmetric defects and its relation with mathematical physics, especially integrable system. By these, we aim for an exact understanding of the quantum field theory.

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