

# 第 69 回 RESCEU コロキウム



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場 所: 理学部 4 号館 1 階ピロティ RESCEU セミナー室

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## What's next in gravitational-wave astronomy

### Abstract

It is almost ten years since the birth of gravitational-wave astronomy, during which time we have learnt a remarkable amount about black hole and neutron star mergers. I will review the state of the field, with a focus on what we have learnt about fundamental nuclear astrophysics and tests of general relativity in the ultra-strong field regime. I will also discuss what comes next in terms of upgrades to the current generation of observatories as well building of the next generation. Here I will again focus on nuclear astrophysics and tests of general relativity. Finally, I will discuss what we are doing in Australia towards building a next-generation gravitational-wave observatory with potential for Japanese collaboration.

興味をお持ちの方の聴講を歓迎致します。