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## Stochastic gravitational-wave backgrounds from astrophysical sources

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The gravitational-wave observatories LIGO and Virgo have so far detected several tens of stellar-mass compact binary mergers, but many more sources, too faint to be detected, lurk below the noise, creating a stochastic background. On the other end of the mass scale, super-massive binary black hole mergers are expected to create a stochastic background observable with pulsar timing arrays. I will discuss some recent work in modelling these backgrounds, their astrophysical implications and future detections prospects.

**Orateur:** DVORKIN, Irina (Institut d'Astrophysique de Paris)

**Classification de Session:** Multi-messenger astrophysics