



# 25<sup>e</sup> Congrès Général de la Société Française de Physique *SFP*



ID de Contribution: 45

Type: **Orale**

## Localizing Gravitational Wave Events for Electromagnetic Followup

*mardi 9 juillet 2019 09:00 (40 minutes)*

Multi-messenger astronomy demands that gravitational wave observers quickly report the location of events so that astronomers can point their telescopes in time. However, this is made challenging by the otherwise-useful fact that gravitational wave observatories pick up signals from many directions at once. Getting an accurate location for an event requires detecting it at multiple sites, and using the arrival times to triangulate the direction. We will discuss how we detect gravitational waves from compact binary systems in LIGO/Virgo data, and how we use that information to estimate the source's sky-direction.

### Choix de session parallèle

2.1 Ondes gravitationnelles et contreparties électromagnétiques

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**Classification de Session:** Séance Parallèle