

# NewCompStar School 2016 - “Neutron stars: gravitational physics theory and observations”



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## General relativity computations with SageManifolds

*Tuesday, September 6, 2016 4:30 PM (2 hours)*

SageManifolds [1] is an extension of the Python-based modern computer algebra system SageMath [2] towards differential geometry and tensor calculus. We shall use it to perform computations and draw figures regarding neutron star and black hole spacetimes. The School participants are encouraged to install the free software SageMath on their computer prior to the school or to open a free account on the SageMathCloud [3] in order to run SageMath remotely.

[1] <http://sagemanifolds.obspm.fr/>

[2] <http://www.sagemath.org/>

[3] <http://cloud.sagemath.com/>

### Summary

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