Contribution ID: **81**   Type: **Talk**

The Black Hole Perturbation Toolkit

Wednesday, January 15, 2020 2:15 PM (45 minutes)

As we face the task of modelling small mass-ratio binaries for LISA we, as a community, need to spend more time developing waveform models and less time writing and re-writing codes. Currently there exist multiple, scattered black hole perturbation codes developed by a wide array of individuals or groups over a number of decades. This project brings together some of the core elements of these codes into a Toolkit that can be used by anyone. The Black Hole Perturbation Toolkit, hosted at https://bhptoolkit.org, is a collection of open-source software and data for black hole perturbation theory calculations. In this talk I will overview the motivation for the Toolkit, give examples of the current code and data, show how you can contribute, and discuss where we plan to take the BHPToolkit in the near future.

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Session Classification: Afternoon session