Possible subjects/questions on the EOS.

- Are two-body forces reliable at the high density of the inner core of Neutron Stars or of mergers ? In particular, do we need to fit phase shifts beyond the inelastic threshold ?
- The same for three-body forces (this is essentially a rethoric question).
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- 3. And then, how reliable are the predicted EOS at high density ? In addition, how large is the uncertainty on the microsopic methods ? What about symmetry enrgy at high density ?
- 4. How stringent is the constraint on the maximum mass ? Are the "osberved" values firmly established ?
- 5. Is the value of 2.16 solar mass already a theoretical challenge ?
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- 6. Is there a clear signature of the EOS in the merger events ?
- 7. Is it possible to extract reliable informations on the EOS from the inspiriling stage of the mergers ?
- How to include thermal effects on the EOS, if necessary ? In particular for the mergers.
- 9. Is there any evidence of quark matter or hyperons in the core of Neutron Stars or merger events ?
- 10. If not, is this a theoretical challenge ?