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The laws of binary black hole mechanics: an update

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The classical laws of black hole mechanics can be extended to binary systems of compact objects. I will first review the various zeroth and first laws of mechanics that have been established in the context of exact general relativity, in the post-Newtonian approximation and in black hole perturbation theory, for binary systems of black holes and/or point particles. I will then discuss various applications of these laws of binary mechanics.

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