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Variational approaches rest on minimising the Feynman variational bound (Feynman, 1972). In variational Bayes the free energy represents a

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Because free energy can be expressed as the expected energy of observations under the variational density minus its entropy, it is also related to the maximum entropy principle. Finally, because the time average of energy is

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action, the principle of minimum variational free energy is a principle of least action .

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