

Project 10/2014: "**Massively parallel sampling with BAT**"Proposers: A. Caldwell (MPP), F. Beaujean (C2PAP), S. Kluth (MPP)

Abstract:

Our long-term goal is to develop an enhanced, robust, and maintainable version of the Bayesian Analysis Toolkit (BAT), a C++ library providing both a framework and a large number of tested packages for performing advanced data analysis tasks in a Bayesian approach. Demanding and complicated analyses will be developed in the framework of BAT, and this will guide work on future versions of the BAT toolkit. The applications we are aiming for require extensive computing power, and our goal is for new versions of BAT to run in a massively parallel way. This project requests resources from C2PAP to design and prototype the new versions of BAT.