

## **The VECMA toolkit for uncertainty quantification**

Virtually all computational models are subject to a variety of sources of uncertainty. One major source of uncertainty arises due to imperfect knowledge in tuneable model parameters, which will get transferred to the output of the model, thereby corrupting its predictions. Moreover, in the case of nonlinear models it is quite possible that input uncertainty will get amplified to the output. Therefore, it is important to assess if a computational model is robust to input uncertainties. For this purpose we present the VECMA toolkit, which is a library of uncertainty quantification tools, especially geared towards models that require an HPC environment for execution.