Fast approximate Bayesian inference of HIV indicators using PCA adaptive Gauss-Hermite quadrature

Adam Howes^{a,*}, Alex Stringer^b, Seth R. Flaxman^c, Jeffrey W. Imai-Eaton^d

^a Department of Mathematics, Imperial College London
^b Department of Statistics and Actuarial Science, University of Waterloo
^c Department of Computer Science, University of Oxford
^d Harvard T.H. Chan School of Public Health, Harvard University

Abstract

This is the abstract.

 $\label{thm:condition} \textit{Keywords:} \ \ \text{Bayesian statistics, spatial statistics, evidence synthesis, small-area estimation, approximate inference, INLA, AGHQ, HIV epidemiology$

^{*}Corresponding author