

# On Stein's factors for Poisson approximation in Wasserstein distance

A.D. BARBOUR<sup>1</sup> and AIHUA XIA<sup>2</sup>

<sup>1</sup>*Angewandte Mathematik, Universität Zürich, Winterthurerstr. 190, 8057 Zürich, Switzerland. E-mail: a.d.barbour@math.unizh.ch*

<sup>2</sup>*Department of Mathematics and Statistics, University of Melbourne, Parkville, Vic. 3010, Australia. E-mail: xia@ms.unimelb.edu.au*

We provide a probabilistic proof of various Stein's factors for Poisson approximation in terms of the Wasserstein distance.

*Keywords:* Poisson approximation; Stein's factors; Stein's method; Wasserstein distance