

# Poisson hulls

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## **Abstract**

We consider a hull operator operating on point processes, the easiest example being the convex hull of the support. Assuming that the intensity measure of the process is known on the set generated by the hull operator, we discuss estimation of the expected symmetric statistics built on the Poisson process. The results are based on a stopping property of this set in relation to the filtration generated by the underlying Poisson process. In special cases, our general scheme yields the estimator of the volume of the convex support or the estimator of an integral of a Hölder function. These and further examples are discussed in the talk.