

1165-60-212

**Gourab Ray\*** (gourabray@uvic.ca), Dtb a440 university of victoria, Po box 1700, Po box 1700 stn csc, Victoria, BC V8W 2Y2, Canada, and **Omer Angel, Thomas Budzinsky** and **Yinon Spinka**. *A tale of infinitely many balloons*. Preliminary report.

Consider a Poisson process in  $\mathbb{R}^d$ . Now start growing balloons at speed 1 from each point in this process, and if two balloons collide, ‘pop’ them (and remove the points in the Poisson process as well.) Is the origin going to be visited infinitely many times by a balloons? What if we change  $\mathbb{R}^d$  to the hyperbolic plane?

We answer these questions demonstrating contrasting behaviour in these two cases.

Joint work with Omer Angel, Thomas Budzinsky and Yinon Spinka. (Received January 18, 2021)