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Mike Huber* (huber@muhlenberg.edu), Dep't of Mathematics and Computer Science, Muhlenberg College, 2400 Chew Street, Alentown, PA 18104, and **Gabriel Costa, John Saccoman** and **Brandon Stern-Charles**. *Modeling Cumulative Home Run Frequencies and the Recent Home Run Explosion*.

In this presentation we define a measure which we call the cumulative home run ratio. We consider all baseball sluggers who have clubbed at least 400 career home runs and compare their cumulative home run ratios by the slugger's corresponding age. Virtually all power hitters have shared the same graphical trends as the batters enter their late 20s / early 30s ... until recently. The home run explosion over the past ten years has generated many questions spanning quite a few areas. How can such players hit home runs with such frequency so late in their careers? Is the pitching that much worse? Are other factors involved? In this presentation, we will explain our model and offer some predictive measures which can be used in the classroom for comparing the great sluggers, past and present, of the National Pastime. (Received August 19, 2008)