

1125-I5-1068      **Tetyana Berezovski\*** (tberezov@sju.edu), Saint Joseph's University, 5600 City Avenue, Philadelphia, PA 19131. *Mathematics with Apparatus: explorations into rhythmic gymnastics*. Preliminary report.

Mathematics of Sports began to be recognized as an attractive platform for innovative instruction of mathematics. In this presentation participants will learn about mathematical modeling tasks with rhythmic gymnastics as a lens for application of mathematical knowledge. These tasks were designed for prospective secondary mathematics teachers, but could be appropriate for usage in college level courses. Evaluation of apparatus position during elements performance with Euclidean Geometry, Trigonometry and Calculus models is discussed. (Received September 14, 2016)