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Darleen Perez-Lavin*, dperezlavin2207@eagle.fgcu.edu, Fort Myers, FL, and **Erik Insko** and **Pamela Harris**. *Peak Sets of Coxeter Groups of Classical Lie Types*.

In this talk we explore the following: What is the probability that a random element of a Coxeter group has a given peak set? This question was first explored in type A Coxeter groups by Billey, Burdzy, Pal, and Sagan in 2013. In 2014 Castro-Velez, Diaz-Lopez, Orellana, Pastrana, and Zevallos answered this question in type B_n . Using Pascal's triangle and a partition of S_n , we generalize the previous results and to answer this question in the Coxeter groups of types B_n and D_n . (Received September 13, 2014)