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**Philsang Yoo\*** ([philsang@math.northwestern.edu](mailto:philsang@math.northwestern.edu)). *Quantum Field Theories and Langlands Dualities*. Preliminary report.

In the first part of the talk, I will discuss a joint project with Chris Elliott on realizing the geometric Langlands correspondence as an instance of S-duality by careful analysis of Kapustin and Witten's work using derived algebraic geometry. In the second part of the talk, I will propose a program to simultaneously capture different instances of Langlands dualities in geometric representation theory through the lens of quantum field theories. (Received August 20, 2016)