1145-05-1395   **Lara Dolecek***, Eng IV 56-147B, Los Angeles, CA 90024, and **Homa Esfahanizadeh** and **Ahmed Hareedy**. *Recent advances in spatially coupled codes and applications in data storage systems.*

In this talk, we will review recent results on finite-length spatially coupled (SC) codes, wth the primary focus on code design for data storage applications. We will present a combinatorial framework for constructing binary and non-binary SC codes, multidimensional SC codes, and demonstrate the effectiveness of these codes for a variety of practical storage channels. We will also briefly discuss future directions. (Received September 21, 2018)