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**Maggie Miller\*** ([maggiem@math.princeton.edu](mailto:maggiem@math.princeton.edu)). *Extending fibrations of knot complements to ribbon disk complements.*

If  $K$  is a fibered ribbon knot in  $S^3 = \partial B^4$  bounding ribbon disk  $D$ , then with a transversality condition the fibration on  $S^3 \setminus \nu(K)$  extends to a fibration of  $B^4 \setminus \nu(D)$ . The proof involves explicitly constructing singular fibrations of 3-manifold cross-sections over time and using Cerf theory to check that the total fibration is smooth. In this poster, I will illustrate some simple examples of ribbon disks, fibrations of 4-manifolds, and the general structure of this proof. (Received August 09, 2019)