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Eva Belmont* (ebelmont@northwestern.edu) and **Daniel C. Isaksen**. *\mathbb{R} -motivic stable stems*. Preliminary report.

Motivic homotopy theory over \mathbb{R} is interesting in part because of its connection to ordinary stable homotopy theory and to C_2 -equivariant homotopy theory. In this talk I will review some of these connections, and discuss work in progress with Dan Isaksen to compute \mathbb{R} -motivic stable homotopy groups of spheres using an Adams spectral sequence. One of our main applications is to a variant of the Mahowald invariant which can be computed using knowledge of the \mathbb{R} -motivic Adams spectral sequence. (Received July 16, 2019)