1070-35-4   **Natasa Sesum*** (`natasas@math.rutgers.edu`), 515 fourth street apt 402, Hoboken, NJ 07030, and **Panagiota Daskalopoulos** and **Ovidiu Munteanu**. *Solitons in geometric evolution equations.* Preliminary report.

We will discuss the importance of solitons in studying geometric evolution equations. We focus on the Yamabe flow and the Ricci flow. In the first part of the talk we will give the classification of Yamabe solitons in the locally conformally flat case. In the second part of the talk we will talk about the classification of shrinking Ricci solitons. (Received February 10, 2011)