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**Panagiota Daskalopolous** and **Manuel Delpino**. *Ancient solutions in geometric flows*. Preliminary report.

In this joint work with Daskalopolous and Del Pino we will describe the method of constructing the ancient solutions to the Yamabe flow. This shows that the parabolic version of classifying the ancient solutions to the Yamabe flow is much more difficult than the classification of the entire solutions to the corresponding elliptic stationary problem. (Received June 28, 2011)