



Numerical Algorithms

Winter semester 2013/2014
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Exercise Sheet 10.

Due date: **Tuesday, 28 January.**

Exercise 14. A Galerkin method can be constructed by multiplying the strong form of a PDE by a test function from the same space that the solution is expected to be in. A Petrov-Galerkin method picks the test function differently. Show that the streamline diffusion method can be identified as a Petrov-Galerkin method.

(5 points)