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**Dmitry Gourevitch\*** ([dimagur@ias.edu](mailto:dimagur@ias.edu)), School of Mathematics, Institute for Advanced Study, Princeton, NJ 08540. *Gelfand pairs and invariant distributions.*

First I will introduce the notion of Gelfand pair and its connection to invariant functions and distributions on the group, and give some examples. We will start from finite groups and compact groups and then go on to reductive groups over local fields. Then we will list some recent results on Gelfand pairs. (Received March 26, 2010)