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this volume contains the proceedings of the conference automorphic forms and related geometry assessing the legacy of i i piatetski shapiro held from april 23 27 2012 at yale university new haven ct ilya i piatetski shapiro who passed away on 21 february 2009 was a leading figure in the theory of automorphic forms the conference attempted both to summarize and consolidate the progress that was made during piatetski shapiro s lifetime by him and a substantial group of his co workers and to promote future work by identifying fruitful directions of further investigation it was organized around several themes that reflected piatetski shapiro s main foci of work and that have promise for future development functoriality and converse theorems local and global functions and their periods adic functions and arithmetic geometry complex geometry and analytic number theory in each area there were talks to review the current state of affairs with special attention to piatetski shapiro s contributions and other talks to report on current work and to outline promising avenues for continued progress the contents of this volume reflect most of the talks that were presented at the conference as well as a few additional contributions they all represent various aspects of the legacy of piatetski shapiro

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