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This volume has its origin in the Fifth, Sixth and Seventh Workshops on and Bayesian Methods in Applied Statistics", held at "Maximum-Entropy the

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University of Wyoming,
August 5-8, 1985, and at
Seattle University,
August 5-8, 1986, and
August 4-7, 1987. It was
anticipated that the
proceedings of these
workshops would be
combined, so most of
the papers were not
collected until after the
seventh workshop.
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papers in this volume

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are on foundations, it is believed that the contents of this volume will be of lasting interest to the Bayesian community. The workshop was organized to bring together researchers from different fields to critically examine maximum-entropy and Bayesian methods in science and engineering

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as well as other disciplines. Some of the papers were chosen specifically to kindle interest in new areas that may offer new tools or insight to the reader or to stimulate work on pressing problems that appear to be ideally suited to the maximum-entropy or Bayesian method. A few papers presented at the

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workshops are not
included in these

proceedings, but a
number of additional
papers not presented at
the workshop are
included. In particular,
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421 "How Does the

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on how they are being observed; and a single photon may sometimes behave as if it could be in two places at once. In the world of quantum mechanics, uncertainty and ambiguity become not just unavoidable, but essential ingredients of science--a development so disturbing that to Einstein "it was as if God were playing dice

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beams due to the
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