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Elon B Lindenstrauss* (elon@ias.edu), Elon Lindenstrauss, School of Mathematics, Institute for Advanced Study, Princeton, NJ 08540. *Mean Dimension and Some Applications.*

Mean dimension is an invariant of infinite dimensional dynamical systems that was suggested by Gromov. In the talk I will give some examples of systems where this invariant is meaningful, give some applications that begin to show a stronger analogy between the theory of mean dimension and ordinary dimension theory, and describe many questions that remain open in this direction. Parts of this work are joint with Benjamin Weiss from the Hebrew University. (Received September 30, 2000)