

**Saul Abarbanel; half a century of scientific work.**

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This talk is a brief survey of Saul Abarbanel's extensive scientific work. It is impossible to give a thorough presentation of all his research, but we shall describe the main contributions and give examples of the results in some of his papers. Saul's work was to a large extent about analysis and development of finite difference methods for PDE, and we shall devote most of the talk to this field.