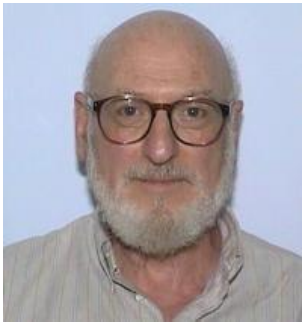C
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# Hilbert Revisited

## Prof. David Buchsbaum

Professor Emeritus of Mathematics
Brandeis University

Starting with a look at Hilbert's famous 1890 paper, which was considered at one time to have dealt the death blow to Invariant Theory, and which included the famous Basis Theorem and Syzygy Theorem, we will trace some developments in commutative noetherian ring theory such as the Hilbert Function, homological dimension, global dimension of local rings, determinantal varieties, and then make a natural return to some of the rings of invariants studied in that same Hilbert paper. While this arc will constitute the main structure of the talk, I may digress into some other related areas, such as characteristic-free representation theory of the general linear group.

**18 de març a les 12h**

**a la Sala d'Actes de la**

**Facultat de Matemàtiques i Estadística**

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