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Michel Pierre Serfati* (michel.serfati@univ-paris-diderot.fr). *On the representation of 'abstract' algebras by 'concrete' ones, and the rise of spectral methods : Marshall Stone's representation theorems (1936-1938).*

The work of Marshall Stone in the years 1936-1938 marked a major epistemological jump. Starting with an apparently very thin question, namely to obtain a 'concrete' representation of 'abstract' Boolean algebras, Stone, in two years and five articles, brought to light, little by little, an outstanding method between algebra and topology, now called spectral analysis. The presentation will identify the main epistemological stages of this creation. (Received September 10, 2013)