From the eightfold way to the experimental verification of the standard model and the searches for new physics: a subjective view based on personal experience

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The gradual development of the ideas and the experimental results leading finally to the standard model and the many - so far unsuccessful - attempts to search for new physics, are reviewed for the time period from 1965 to 2012. The talk is based on personal experiences and is therefore rather subjective.

The way to the standard model, which looks so simple and elegant in modern textbooks, was for quite some time obscured and delayed by mistakes and misleading results. Some of them will be discussed.