

Title:

From mnemonics to proofs to lambda terms

Speaker:

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Abstract:

We can hypothesize that the notion of mathematical proofs was invented as follows. The mathematicians in ancient Egypt had mathematical knowledge as empirical facts. Thales could have observed that these facts may be ordered in such a way that they are more easy to remember: following a certain logic. Aristotle started the quest of finding the rules of logic. This quest was completed by Frege. From that moment on proofs could be completely formalized and hence checked by machine. A convenient way to represent such totally formalized proofs is given by lambda terms. We will provide simple examples. Also a statement about the future of proofs will be ventured.