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Title: On understanding mathematical statements and their proofs.

Abstract:

The talk will be devoted to various, [mostly psychological] aspects of understanding statements and proofs by a professional mathematician. Several levels will be specified: from the "short review" level to complete understanding for statements and from catching the main idea to long memorizability for proofs. Some aspects of acquiring new knowledge will be highlighted.

A special attention will be paid to "almost proofs" based on the computer-based evidence.