

On interpolation theorem

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In this talk, we focus on Craig's interpolation theorem and some applications of it. The theorem which was proved by William Craig in 1957, has had a strong impact in various fields of logic and its applications, e.g. model theory, logics of knowledge and belief, combination of theorem provers, model checking, as well as specification of software systems.

After providing a short survey of such applications, we will describe a proof of the interpolation theorem for first order logic, and (if time permits) provide a discussion with reference to other important logics.