



type variables during the search for a proof. A third alternative is the most realistic. We provide precisely the relevant axioms and previously proven theorems, with the correct type variable instantiations, and try to prove C follows. In general, of course, we cannot know which of the A are relevant. However, for the Grundlagen theorems, we can extract this information from the Automath proof terms. Using this information, we obtain thousands of theorems of the form

$$[A'_i \wedge \dots \wedge A'_i$$