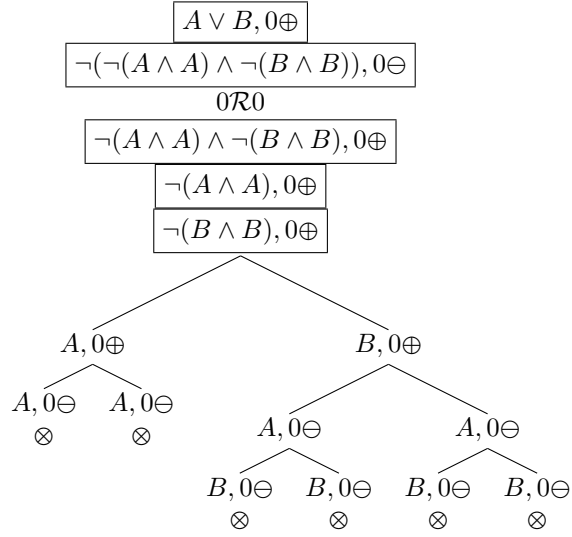


$$(1) A \vee B \vdash \neg(\neg(A \wedge A) \wedge \neg(B \wedge B))$$



$$(2) \neg(\neg(A \wedge A) \wedge \neg(B \wedge B)) \vdash A \vee B$$

