

Lect 12

AFSOC that EMPTY is ~~undecidable~~ decidable so there is a Turing machine that decides it. Let have a machine M_A where it decides ACCEPT. Given $\langle M, x \rangle$

- 1) Run ~~M_A with M'~~ M_A with M'
- 2) IF it reject we accept, IF it accept we reject

We know that ACCEPT is undecidable means M_A is undecidable. This contradict. Hence, EMPTY is undecidable.