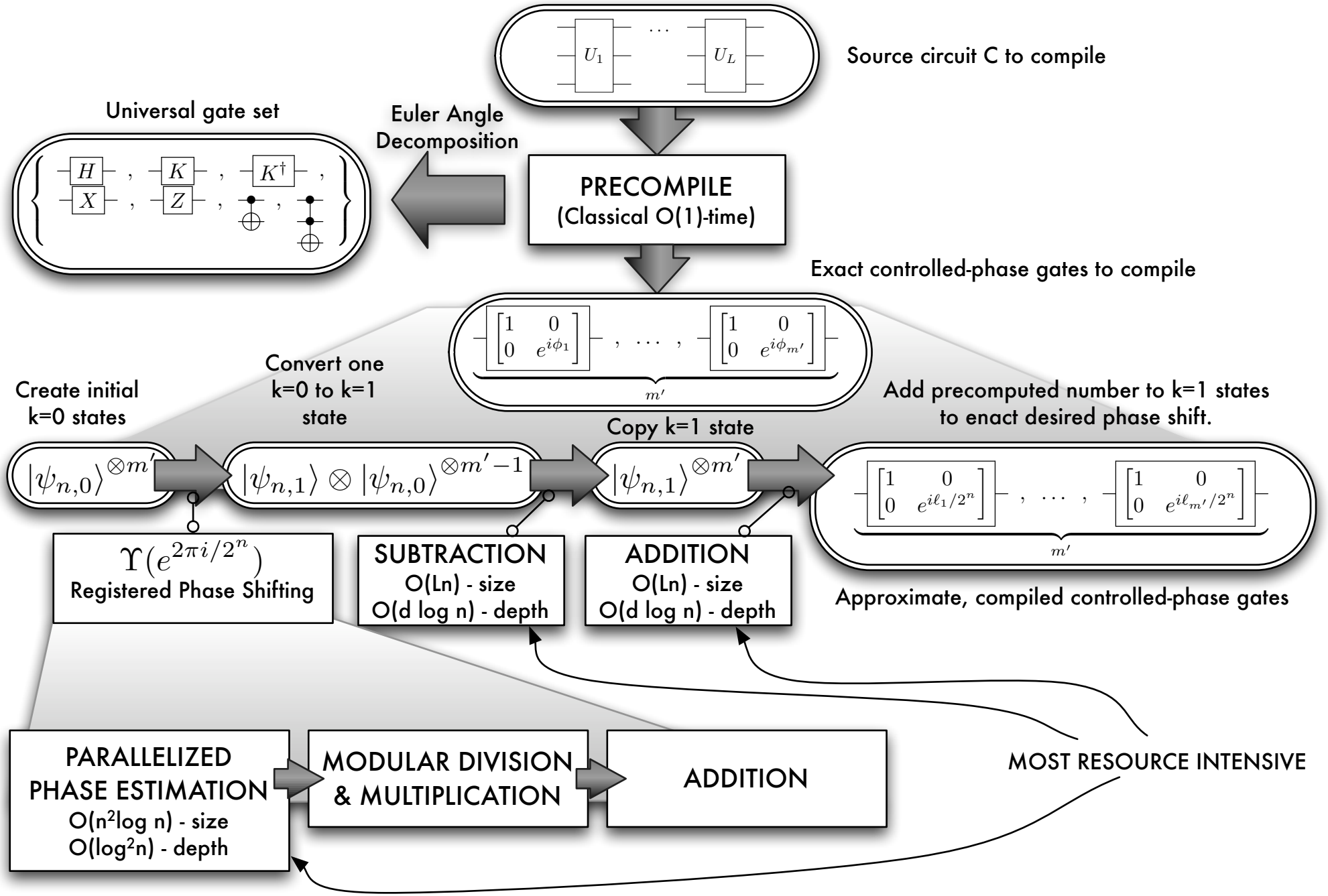KITAEV-SHEN-VYALYI ALGORITHM FOR QUANTUM COMPILING