

# Grover's algorithm

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4 February 2019

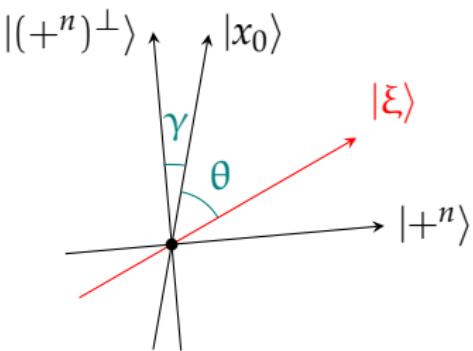


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Grover's algorithm alternates the operations  $R_{|x_0\rangle}$  and  $R_{|(+^n)^\perp\rangle}$ , where  $|(+^n)^\perp\rangle$  is a state orthogonal to  $|+^n\rangle$  in the 2d space  $\text{span}\{|x_0\rangle, |+^n\rangle\}$ .

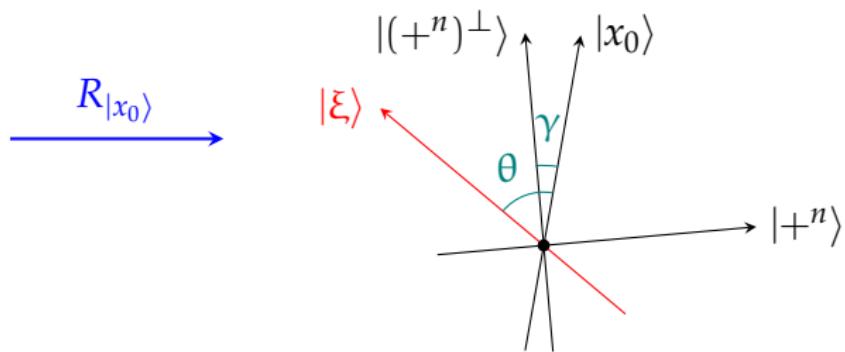
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