HW 6-2

Sol': Coiven,

$$|\pm\rangle = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$|\beta_{00}\rangle = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

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$$|\beta_{10}\rangle = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$|\gamma_{01}\rangle = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

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We un see Jodand Marie linear combinations of 1800 and 1810, while Inois and In are linear combinations of (Bo) and 1810>. So, enpressing each nis in terms of $|\gamma_{00}\rangle = \sqrt{2}(1++) + |--\rangle$ $=\frac{1}{12}(100)+10)+\frac{1}{12}(10)+100)$ =2 (300> mo1>-/12 (1+->+ 1-+>) $=\frac{1}{12}(|01\rangle+|10\rangle)+\frac{1}{12}(|10\rangle+|01\rangle)$ =2 BOD

$$|\eta_{10}\rangle = 2|\beta_{10}\rangle$$

$$|\eta_{11}\rangle = 2|\beta_{11}\rangle$$

GINED Since