FM: 
$$H\begin{pmatrix} \uparrow \\ \uparrow & \uparrow \end{pmatrix} < H\begin{pmatrix} \uparrow \\ \downarrow & \uparrow \end{pmatrix}$$

AFM:  $H\begin{pmatrix} \uparrow \\ \downarrow & \uparrow \end{pmatrix} = H\begin{pmatrix} \uparrow \\ \uparrow & \downarrow \end{pmatrix} = \cdots$