$$g^{(1)}(\vec{r}) \qquad g^{(1)}(\vec{r}) \qquad g^{(1)}(\vec{r})$$

$$\uparrow \qquad \qquad \uparrow \qquad \qquad \downarrow \qquad \qquad \uparrow \qquad \qquad \uparrow \qquad \qquad \downarrow \qquad \qquad \downarrow \qquad \qquad \uparrow \qquad \qquad \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \downarrow \qquad \qquad$$