```
γ?R???????
\begin{matrix} \gamma \\ R_{\Psi_m}(\Delta S)? \\ ? \\ ? \\ ? \\ \gamma \\ \gamma \\ \gamma_{\substack{112 \\ a_{1,\pm}}} \end{matrix}
         \gamma_{112} \equiv \langle \cos(\phi_{\alpha} + \phi_{\beta} - 2\Psi_{RP}) \rangle
                                                                                                                          = \langle \cos(\Delta\phi_{\alpha})\cos(\Delta\phi_{\beta}) - \sin(\Delta\phi_{\alpha})\sin(\Delta\phi_{\beta}) \rangle
                                                                                                                          = (\langle v_{1,\alpha}v_{1,\beta}\rangle + B_{IN}) - (\langle a_{1,\alpha}a_{1,\beta}\rangle + B_{OU} + B_{OU})
         \begin{matrix} \alpha \\ \beta \\ ?? \\ \langle a_{1,\alpha}a_{1,\beta}\rangle a_{1,\pm} \end{matrix}
         B_{IN} - B_{OUT} \Delta \gamma_{112}
?
a_{1}^{112}
\Delta \gamma_{112}
?
?
?
         \delta \equiv \langle \cos(\phi_{\alpha} - \phi_{\beta}) \rangle
                                     =(\langle v_{1,lpha}v_{1,eta}
angle+B_{IN})+(\langle a_{1,lpha}a_{1,eta}
angle+B_{OU})
         \begin{array}{l} \langle a_{1,\alpha}a_{1,\beta}\rangle \\ \frac{\Delta\delta}{\Delta\gamma_{112}}? \end{array}
    \begin{split} \Delta \delta^{TMC} &\to -\frac{1}{N} \frac{\langle p_{T} \rangle_{\Omega}^{2}}{\langle p_{T}^{2} \rangle_{F}} \frac{1 + (\bar{v}_{2,\Omega})^{2} - 2\bar{\bar{v}}_{2,F}\bar{v}_{2,\Omega}}{1 - (\bar{\bar{v}}_{2,F})^{2}} (4) \\ \Delta \gamma_{112}^{TMC} &\to -\frac{1}{N} \frac{\langle p_{T} \rangle_{\Omega}^{2}}{\langle p_{T}^{2} \rangle_{F}} \frac{2\bar{v}_{2,\Omega} - \bar{\bar{v}}_{2,F} - \bar{\bar{v}}_{2,F}(\bar{v}_{2,\Omega})^{2}}{1 - (\bar{\bar{v}}_{2,F})^{2}} \\ &\approx \kappa_{112}^{TMC} \cdot v_{2,\Omega} \cdot \Delta \delta^{TMC}, \end{split} \tag{5}
    \begin{array}{l} \kappa_{112}^{TMC} = \\ (2\bar{v}_{2,\Omega} - \\ \overline{v}_{2,F})/v_{2,\Omega} \\ \overline{v}_{2} \\ \overline{v}_{3} \\ \overline{
\begin{pmatrix} \kappa_{112} & & \\ & TMC/LCC & TMC/LCC \\ \kappa_{112} & & \\ & \Delta\gamma_{112}\kappa_{112} \\ & \gamma \\ & \kappa \\ & \kappa
```