ESTIMADOR DE HAMILTON:

$$\xi_{1}^{s}(t) = \frac{DD(t) EB(t)}{DB(t)^{s}}$$

TENEMOS QUE
$$R = \int w \, \tilde{n} \, dV$$
, AS:
 $R_1 R_2 = \int \tilde{n} \, W_1 \, dV$, $\int \tilde{n}_2 W_2 \, dV_2 = \int \int \tilde{n}^2 (W_1 W_2) \, dV_1 \, dV_2$
ASS QUE $RR = \tilde{n}^2 \langle \langle W_1 W_2 \rangle \rangle$

ALIOR

$$DD = \int_{N} m_1 dV_1 \int_{N_2} m_2 dV_2 = \int_{N_1} n_2 m_1 m_2 dV_1 dV_2 , \quad \rho_{CRO} \quad n = \bar{n} \ (1+8)$$

$$= \bar{n}^2 \int_{N_2} (1+8) (1+8) W_1 W_2 dW_1 dV_2$$

$$= \bar{n}^2 \left(\langle \langle w_1 w_2 \rangle \rangle + 7 \langle \langle w_1 w_2 \rangle \rangle + 7 \langle \langle w_1 w_2 \rangle \rangle + 7 \langle \langle w_1 w_2 \rangle \rangle \right)$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}$$

ANORA

$$DR = \int n_1 w_1 dv_1 \int n_1 w_2 dv_2 = \tilde{n}^2 \int \int (1+\delta_1) w_1 w_2 dv_1 dv_2$$

$$= \tilde{n}^2 \left(\int \int w_1 w_2 dv_1 dv_2 + \int \int \delta_1 w_1 w_2 dv_1 dv_2 \right)$$

$$DR = \tilde{n}^2 \left(\langle \langle w_1 w_2 \rangle \rangle + \langle \langle w_1 w_2 \rangle \rangle \right)$$

$$ASC \left(\partial R \right)^2 = \tilde{n}^4 \left(\langle \langle w_1 w_2 \rangle \rangle^2 + 2 \langle \langle w_1 w_2 \rangle \rangle^2 + 2 \langle \langle w_1 w_2 \rangle \rangle^2 + 2 \langle \langle w_1 w_2 \rangle \rangle^2 \right)$$

QUE ASÍ

$$1+\frac{1}{5}\sum_{\mu}^{2}(r)=\frac{DD(r)PR(r)}{DR(r)^{2}}=\frac{\bar{n}^{4}(<(w_{1}w_{2}>>)(<(w_{1}w_{2}>>)+\bar{l}_{1}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)+\bar{l}_{2}<(w_{1}w_{2}>)$$

$$\xi_{+}^{2}(r) = \frac{1 + 2 \cdot 7 \cdot 7 \cdot 2 + 2^{2} - 2 \cdot 7 \cdot 2 - 2 \cdot 7 \cdot 1}{(2 \cdot 1 + 1)^{2}} = \frac{2^{2} - 2 \cdot 7 \cdot 7 \cdot 7 \cdot 2}{(2 \cdot 1 + 1)^{2}} = \xi_{+}^{2}(r)$$

Formacor landy - Szalay

$$\begin{cases} \xi_{12}^{(r)}(r) = \frac{DD(r) + PR(r) - 2DR(r)}{PR(r)} , pana \text{ Oif. NUMTRO} \quad OE D y 2 \\ PR(r) = 1 + \frac{1}{N_{est}^2} \frac{DD(r)}{PR(r)} - 2 \frac{1}{N_{est}} \frac{DR(r)}{PR(r)} \end{cases}$$

Asi

$$N_{est}^2 = \frac{D}{R} = \frac{\int nw \, dV}{\int nw \, dV} = \frac{n}{N} \int (l+8) w \, dV$$

$$= \langle w \rangle + \overline{\delta} \langle w \rangle = l+\overline{\delta}, \quad \text{DONDE} \quad \overline{\delta} = \frac{\langle w \otimes S(r) \rangle}{\langle w \rangle}$$

$$= \frac{\langle w \rangle + \overline{\delta} \langle w \rangle}{\langle w \rangle} = l+\overline{\delta}, \quad \text{DONDE} \quad \overline{\delta} = \frac{\langle w \otimes S(r) \rangle}{\langle w \rangle}$$

$$= \frac{\langle (l+\overline{\delta})^2 + (l+\overline{d}_1 + \overline{d}_2 + \overline{\xi}^{(2)}) - 2(l+\overline{\delta})(l+\overline{d}_1)}{(l+\overline{\delta})^2}$$

$$= \frac{(l+\overline{\delta})^2 + (l+\overline{d}_1 + \overline{d}_2 + \overline{\xi}^{(2)}) - 2(l+\overline{\delta})(l+\overline{d}_1)}{(l+\overline{\delta})^2}$$

$$= \frac{(l+\overline{\delta})^2}{(l+\overline{\delta})^2} - \frac{2}{l+\overline{\delta}} \frac{(l+\overline{\delta})^2}{(l+\overline{\delta})^2}$$