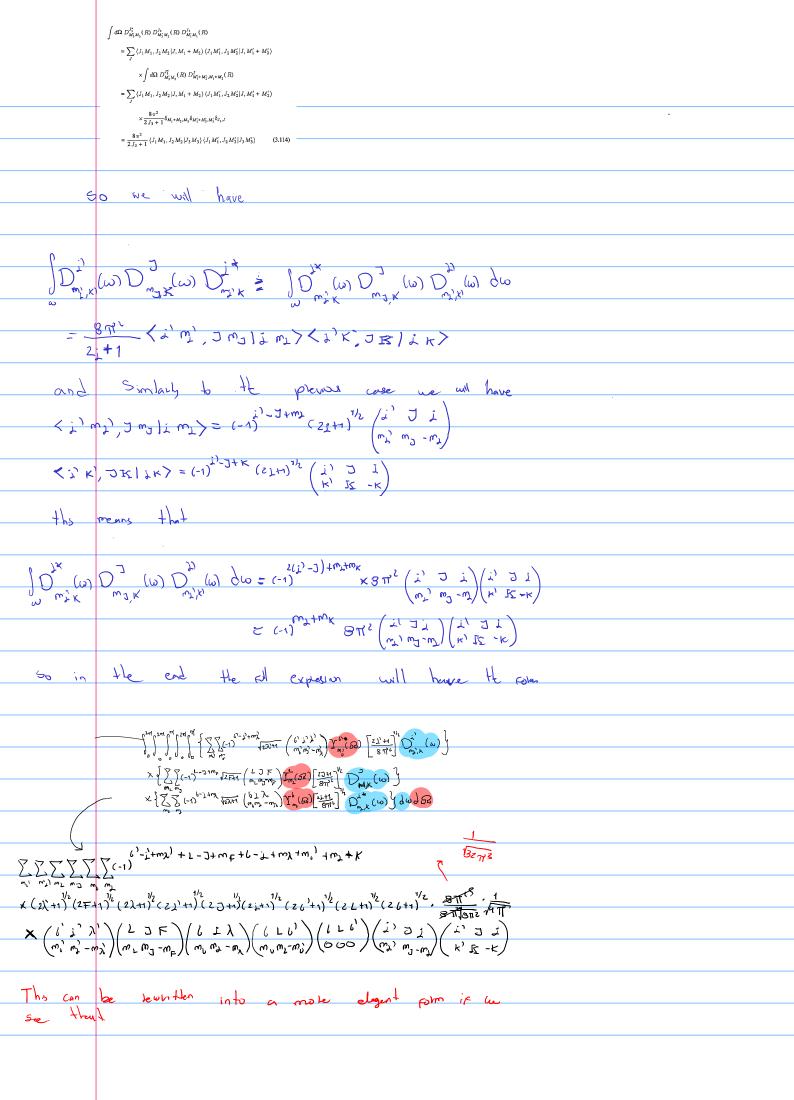
On the angular integrals

[] [[[[]]] [[[]] 98

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First let us remember that
                                                                                                                                                                                                             \int d\Omega \ Y_{L_{3}M_{3}}^{*}(\theta,\phi)Y_{L_{2}M_{2}}(\theta,\phi)Y_{L_{1}M_{1}}(\theta,\phi)
                                                                                                                                                                                                                                                 = \left\lceil \frac{(2L_1+1)(2L_2+1)}{4\pi(2L_3+1)} \right\rceil^{\frac{1}{2}} \left\langle L_1M_1, L_2M_2 \big| L_3M_3 \right\rangle \left\langle L_10, L_20 \big| L_30 \right\rangle
          1 1 (SZ) I (SZ) I (SZ) L (SZ) 
                                                                                                                                                                        \langle j_1 m_1, j_2 m_2 | j_3 m_3 \rangle \equiv (-1)^{j_1 - j_2 + m_3} (2 j_3 + 1)^{\frac{1}{2}} \begin{pmatrix} j_1 & j_2 & j_3 \\ m_1 & m_2 & -m_3 \end{pmatrix}
               \langle b \rangle, | b \rangle = (-1)^{1/2} (2b^2 + 1)^{1/2} (b | b | b^2) = (-1)^{1/2} (2b^2 + 1)^{1/2} (b | b | b^2)
        \langle l m_{l} | L m_{r} | l^{\prime} m_{o}^{\prime} \rangle \equiv (-1)^{l-l+m_{o}^{\prime}} (2l^{\prime}+1)^{m_{r}} / (l l^{\prime})^{\prime}
                           So he will have that
                       \int_{\mathcal{R}} \int_{m_{L}}^{m_{L}} \left( S^{2} \right) \int_{m_{L}}^{m_{L}} \left( S^{2} \right) dS = \frac{\left( 2 (l+1) (2 L+1) \right)^{1/2} \left( -1 \right)^{1/2} \left( 2 (l+1) \right)^{1/2} \left( 2 
                                                                                                                                                                  = \frac{2((-1)+m_0)}{2(-1)} \left[ \frac{(2(+1)(2L+1)(2l)+1)}{4\pi} \left( \frac{l}{m_0} \frac{L}{m_1} - \frac{m_0'}{m_1'} \right) \left( \frac{l}{0} \frac{L}{0} \frac{l}{0} \right) \right]
                                                                                                                                                          = (-1)^{n} \int \frac{(2l+1)(2l+1)(2l+1)}{(2l+1)(2l+1)} \left( \frac{l}{l} L \frac{l}{l} \right) \left( \frac{l}{l} L \frac{l}{l} \right)
Now we have to work with the integrals of the Wigner D-Foretry.

We have that:
    \int_{\mathbb{R}^{3}} D_{m_{2}}^{3}(\omega) D_{m_{2}}^{3}(\omega) D_{m_{2}}^{3} = \cdots
     Let is removed that
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\left\{\begin{array}{cccc} j_1 & j_2 & j_3 \\ j_4 & j_5 & j_6 \\ j_7 & j_8 & j_9 \end{array}\right\}
                                                                                                                                                                                                                                                                                                                                    = \sum_{\text{all } m} \begin{pmatrix} j_1 & j_2 & j_3 \\ m_1 & m_2 & m_3 \end{pmatrix} \begin{pmatrix} j_4 & j_5 & j_6 \\ m_4 & m_5 & m_6 \end{pmatrix} \begin{pmatrix} j_7 & j_8 & j_9 \\ m_7 & m_8 & m_9 \end{pmatrix}
                                                                                                                                                                                                                                                                                                                                             \times \quad \left( \begin{array}{cccc} j_1 & j_4 & j_7 \\ m_1 & m_4 & m_7 \end{array} \right) \left( \begin{array}{cccc} j_2 & j_5 & j_8 \\ m_2 & m_5 & m_8 \end{array} \right) \left( \begin{array}{cccc} j_3 & j_6 & j_9 \\ m_3 & m_6 & m_9 \end{array} \right)
                                                                     \begin{array}{c} \times \begin{pmatrix} w'_1, w'' & w' \\ p_1 & p_2 \\ p_3 & p_4 \\ p_4 & p_4 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w'_1, w'' & w'' \\ p_1 & p_2 \\ p_3 & p_4 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w'_1, w'' & w'' \\ p_1 & p_2 \\ p_3 & p_4 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w'' & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w'' & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''' & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_2 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
 \begin{array}{c} \times \begin{pmatrix} w''_1, w''_1 & w''_1 \\ p_3 & p_3 \\ \hline \end{array} 
                  = \begin{pmatrix} \begin{pmatrix} l & j & j \\ l & j & j \end{pmatrix} \begin{pmatrix} l & j \\ l & j & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} 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\begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l & k \end{pmatrix} \begin{pmatrix} l & k \\ l
Let us sous on the noted terms, we will have that
                                                                                                                                                    \sum \begin{pmatrix} j_1 & j_2 & j_3 \\ m_1 & m_2 & m_3 \end{pmatrix} \begin{pmatrix} j_1 & j_2 & j_3' \\ m_1 & m_2 & m_3' \end{pmatrix} = (2j_3 + 1)^{-1} \delta_{j_3, j_3'} \delta_{m_3, m_3'} \quad (2.32)
       thus
                                      (5) + 1) \sum_{m', m \in M} {m', m \in M} {m', m \in M', m} = S', Y, \sum_{m', m', m'}
                 on the other hard, let is notice that
                                                                                                                                                                                                                                                                                                                                                                                               \begin{pmatrix} j_1 & j_2 & j_3 \\ m_1 & m_2 & m_3 \end{pmatrix} = (-1)^{j_1 + j_2 + j_3} \begin{pmatrix} j_2 & j_1 & j_3 \\ m_2 & m_1 & m_3 \end{pmatrix}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  = (-1)^{j_1+j_2+j_3} \begin{pmatrix} j_1 & j_3 & j_2 \\ m_1 & m_3 & m_2 \end{pmatrix}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = (-1)^{j_1+j_2+j_3} \begin{pmatrix} j_3 & j_2 & j_1 \\ m_3 & m_2 & m_1 \end{pmatrix}

\left(\begin{array}{ccc}
\begin{pmatrix}
\zeta & L & \zeta^{\prime} \\
m_{1} & m_{2} & m_{3}
\end{pmatrix}\right) = (-1)^{(1+L+b)} \begin{pmatrix}
\zeta & L & \zeta \\
m_{2} & m_{3} & m_{3}
\end{pmatrix}

                                                 So yelling everything together me will have
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= (-1) (2) + 1) \sum_{i,j} (m_i m_j^{i} m_j^{j}) (m_i m_j m_k) (m_i m_j m_j) (m_i^{i} m_j m_j) (m_i^{i} m_j^{i} m_j^{i}) (m_i^{i} m_j^{i} m_j^{i} m_j^{i}) (m_i^{i} m_j^{i} m_j^{i} m_j^{i} m_j^{i} m_j^{i}) (m_i^{i} m_j^{i} m_j^{i} m_j^{i} m_j^{i} m_j^{i} m_j^{i} m_j^{i}) (m_i^{i} m_j^{i} m_j
                                                                                                                                                                                       \sum_{\substack{M \searrow W^{E} \\ y_{i} \neq y}} {\binom{w_{i}^{y}}{y_{i}}} \stackrel{W^{E}}{=} W^{y}} {\binom{w_{i}^{y}}{y_{i}}} \stackrel{W^{E}}{=} W^{y}_{ii}} \times {\binom{0.00}{1}} {\binom{K_{i}}{Y_{i}}} \stackrel{K_{i}}{=} K
=\sum_{k=1}^{m_{1}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{k=1}^{m_{2}}\sum_{
                                                                   = \begin{cases} \begin{pmatrix} 1 & y \\ 1 & 2 & k \\ \end{pmatrix} \times (-1) \begin{pmatrix} 1 & 1 \\ 1 & 2 & k \\ \end{pmatrix} \times (-1) \begin{pmatrix} 1 & 1 \\ 1 & 2 & k \\ \end{pmatrix} \begin{pmatrix} 1 & 1 & 1 \\ 1 & 2 & k \\ \end{pmatrix} \begin{pmatrix} 1 & 1 & 1 \\ 1 & 2 & k \\ \end{pmatrix} \begin{pmatrix} 1 & 1 & 1 \\ 1 & 2 & k \\ \end{pmatrix}
                                                                                 NOTE: Notice that I have made the change ( in de is) His ( in de de)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The parameters of the 3 j symbol \begin{pmatrix} j_1 & j_2 & J \\ m_1 & m_2 & -M \end{pmatrix} (where m_3 has been written as -M)
                                                        Therefore, we come to the giral result
                                                                                                                                                        2 (-1) Bzηz
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