Check that two measurements of the same observable, with infinitesimal time separation, give the same outcome:

\[ \psi = \sum_i c_i \psi_i \text{ measurement 1 } \]

\[ \psi' = 2\psi_i \text{ after mnt. } \]

\[ \psi' = \sum_j c'_j \psi_j \text{ with } c'_i = 1 \]

\[ c'_j = 0 \quad (j \neq i). \]

So proj. postulate for moment 2 says

outcome \( \psi_i \) has prob. \( \mid c'_i \mid^2 = 1 \)

\( \psi_j \quad (j \neq i) \) has prob. \( \mid c'_j \mid^2 = 0 \).