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 Scalar Product With Any Of The S we have  $\langle \mathbf{i}, \mathbf{i} \rangle = 0$ , So  
 $c_i = 0$  for all  $i$ . The Converse Does Not Hold - The  
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2.2 Experimental Techniques 51 2.2.1 General Principles Of Neutron Scattering 51 2.2.2 Neutron Scattering Cross Sections 52 2.2.3 Correlation And Scattering Functions 54 2.2.4 Magnetic Cross Section 55 2.2.5 Instruments 56 2.3 Extreme Environmental Conditions 59 2.3.1 Cryogenics 59 2.3.2 High Magnetic Field 64 2.3.3 High Pressure 68 2.4 Quantum Phase Transitions In Spin Dimer Systems 71 2.4.1 ... Dec 3th, 2020

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