

**Bragg Intensities for neutron 14.7 meV of  $(1-x)\text{Pb}(\text{B}_{1/3}\text{Nb}_{2/3})\text{O}_3-x\text{PbTiO}_3$   
(for B=Nb,Mg)**

The integrated intensity of a Bragg reflection is proportional to

$$\alpha I = |F|^2 / \sin(2\theta)$$

where  $F$  is a structure

$\alpha$  is a scale factor

Reflection	PbTiO <sub>3</sub>	PZN	PMN	PZN-15%PT	
	$\alpha I$	$\alpha I$	$\alpha I$	$\alpha I$	$2\theta$
1 0 0	146	14	11	4	33.8
1 1 0	<1	117	111	93	48.5
2 0 0	966	986	982	990	71.1
2 2 0	1000	1000	1000	1000	110.6
3 0 0	100	9	7	3	121.4
3 1 0	<1	122	118	97	133.6