		C	O	H	Wood
Material properties					
Material density ρ	(g cm^{-3})				0.6
Relative fraction	(%)	50	44	6	
Number density N	(cm^{-3})	1.51E+22	9.94E+21	2.17E+22	4.67E+22
Atomic weight A	(g mol^{-1})	12	16	1	
Thermal neutron spectrum (NEUTRA)					
Microscopic cross section σ	(cm^2)	4.93E-24	4.00E-24	4.70E-23	
Attenuation coefficient Σ	(cm^{-1})	0.07	0.04	1.02	**1.13**
relative share of Σ	(%)	6	4	90	
Mass attenuation Σ/ρ	(cm^2 g^{-1})				**1.88**
Cold neutron spectrum (ICON)					
Microscopic cross section σ	(cm^2)	5.29E-24	4.23E-24	6.02E-23	
Attenuation coefficient Σ	(cm^{-1})	0.08	0.04	1.31	**1.42**
relative share of Σ	(%)	6	3	91	
Mass attenuation Σ/ρ	(cm^2 g^{-1})				**2.37**

Table 1: Theoretical microscopical cross-sections and attenuation coefficients for a simplified physical model of wood (density 0.6 g/cm^3)at the imaging beamlines NEUTRA (thermal spectrum) and ICON (cold spectrum), only carbon, oxygen and hydrogen are considered as constituents (source [1]).