SPATIAL SPIN RESONANCE OF POLARIZED NEUTRONS IN AMPLITUDE-MODULATED MAGNETIC FIELDS

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Spatial spin resonance of polarized neutrons in a system with amplitude-modulated alternating in space and guiding magnetic fields is investigated [1]. The case of sine-cosine modulation is considered. It is shown that amplitude modulation of the guide magnetic field allows to change smoothly the line width of the resonator in the range $\Delta p/p = 0.1 \div 0.3$. lineary with the modulation value.

REFERENCES

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