

## Czechoslovak Journal of Physics

1996, Volume 46, Issue 2, pag. 731-732

## Giant oscillations of coupling strength on Mo/Si multilayers with the constant thickness of semiconductor layers

Fogel Nina Ya., Turutanov Oleg G., Sidorenko Anatoly S., Buchstab Eugene I.

https://doi.org/10.1007/BF02583673

## **Abstract**

We report the observation of anisotropy ratio  $\gamma$  and interlayer coupling strength oscillations with variation of metal layer thickness on Mo/Si multilayer series with constant Si layer thickness. These oscillations correlate with previously found oscillations of TC,  $R_{300}/R_n$  and  $dH_{c\perp}/dT$ . The giant amplitude of  $\gamma$  oscillations makes one to believe that all oscillation effects are due to the variation of the Josephson coupling strength. Possible origin of these unusual effects is discussed.