



## СОВМЕСТНЫЙ КОЛЛОКВИУМ

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### Real models of spherical homogeneous spaces

Let  $G$  be a connected reductive algebraic group over the field of complex numbers  $\mathbb{C}$ . Let  $Y=G/H$  be a spherical homogeneous space of  $G$  (a homogeneous space of special kind). Let  $G_0$  be a real model (real form) of  $G$ , that is, a model of  $G$  over the field of real numbers  $\mathbb{R}$ .

In the talk I will discuss the following question: does there exist a  $G_0$ -equivariant real model  $Y_0$  of  $Y$ ? This is interesting even in the case when  $G=G' \times G'$ , where  $G'$  is a connected semisimple group over  $\mathbb{C}$ , and  $H=G'$  embedded diagonally into  $G' \times G'$ .

No preliminary knowledge of spherical varieties will be assumed.

Приглашаются все желающие!