

20 сентября (понедельник), 17:15, Zoom 675-315-555, ауд. 305, семинар "Алгебраические группы", Konstantin Tsvetkov (St. Petersburg State University), "Unipotent elements in microweight representations of exceptional groups".

Анонс

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I will speak about unipotent elements in Chevalley groups of types  $E_6$  and  $E_7$  which are analogues of linear transvections. These elements are also called transvections.

In the first part of the talk we consider the group of type  $E_6$ . We prove relations between transvections. Also we show that every transvection  $T(u, v)$  belongs to the elementary subgroup  $E(E_7, R)$  and if  $u$  is unimodular, then  $T(u, v)$  belongs to  $E(E_6, R)$ . These statements are analogues of Whitehead lemma and Suslin's normality theorem.

In the second part we consider the group of type  $E_7$ . Namely, we define transvections and prove relations between them.