

$\text{PSp}(4,3)$  as a symmetric  $(45,12,3)$ ,  $(40,13,4)$  and  $(36,15,6)$  design

**Dean Crnković**  
*Department of Mathematics*  
*University of Rijeka*  
*Croatia*

It is shown in [?] that a symmetric  $(36,15,6)$  design can be constructed from the group  $\text{PSp}(4,3)$ . In the similar way from the group  $\text{PSp}(4,3)$  one can construct symmetric  $(40,13,4)$  and  $(45,12,3)$  designs.

## References

- [1] D. Held, J. Hrabec de Angelis, M.-O. Pavčević,  $\text{PSp}_4(3)$  as a symmetric  $(36, 15, 6)$ -design, *Rend. Semin. Mat. Univ. Padova* 101, 95-98 (1999).