



## ON THE SUBGROUPS OF THE GROUPS OF BRUNNIAN LINKS

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Let  $L_n = \{\ell_1, \ell_2, \dots, \ell_n\}$  be a Brunnian link and  $G(L_n)$  be its link group. Suppose that  $R_i$  is the normal closure of the meridian of  $\ell_i$  in  $G(L_n)$ , then  $R_1, R_2, \dots, R_n$  are normal subgroups of  $G(L_n)$ . For each  $2 \leq m \leq n$ , let  $X(L_n)_m$  be the homotopy colimit of the classifying spaces  $B(G(L_n))/\Pi$ . Here we studied the geometrical property of  $X(L_n)_m$  and issued in an algebraic result, i. e., we proved  $\cap_{i=1}^m R_i = [R_1, \dots, R_m]_S$ , the symmetric commutator subgroup  $R_1, R_2, \dots, R_n$  for  $1 \leq m \leq n$ . This is a joint work with Fengchun Lei and Yu Zhang.

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