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	id	id-5693478141935801408		The automorphism groups of the 27 lines on the smooth cubic surface or the 28 bitangents to the general		
		The automorphism groups of the 27 lines on the smooth cubic surface or the 28 bitangents to the general quartic plane curve are well-known to be closely related to the Weyl groups of \$E_6\$ and \$E_7\$. We show how classical subconfigurations of lines, such as double-sixes, triple systems or Steiner sets, are easily constructed		quartic plane curve are well-known to be closely related to the Weyl groups of E_6 and E_7. We show how classical subconfigurations of lines, such as double-sixes, triple systems or Steiner sets, are easily constructed from certain models of the exceptional Lie algebras. For e_7 and e_8 we are lead to beautiful		
	abstract	from certain models of the exceptional Lie algebras. For \${\mathfrak e}_7\$ and \${\mathfrak e}_8\$ we are lead to beautiful models graded over the octonions, which display these algebras as plane projective geometries of	abstract	models graded over the octonions, which display these algebras as plane projective geometries of subalgebras. We also interpret the group of the bitangents as a group of transformations of the triangles in		
		subalgebras. We also interpret the group of the bitangents as a group of transformations of the triangles in the Fano plane, and show how this allows to realize the isomorphism \$PSL(3,F\ 2)\simeq PSL(2,F\ 7)\$ in terms of		the Fano plane, and show how this allows to realize the isomorphism PSL(3,F_2)â‰f PSL(2,F_7) in terms of harmonic cubes.		
		harmonic cubes.	versions			
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