$\mathcal{Z}(sP) = \left\langle \left(\frac{\ell_{i+2}}{\ell_{i+2}}\right)^{\alpha} \left(\frac{\ell_{i+1}}{\ell_{i}}\right)^{\alpha} \right\rangle$ 06059 (9+1)u-v ≤ s V+1= 34 1=1213 P=P+P2+P3 place of deg 3 li tangent at Pro Propert et Pro $\mathcal{L}(sP)/\mathcal{L}((s-1)P) = \left\langle \left(\frac{\ell_i}{\ell_{i+2}}\right)^{i} \left(\frac{\ell_{i+1}}{\ell_{i}}\right)^{i-1} \right\rangle = \left\langle \left(\frac{\ell_i}{\ell_{i+2}}\right)^{i} \left(\frac{\ell_{i+1}}{\ell_{i}}\right)^{i-1} \right\rangle$ (2) $C_d(D, sP)$ $D = Q_1 + ... + Q_{q3}$ affine nat. pl. ? (C (Q + D, SP) (mistake in our GAP package!) ? If f taking values in Eq in $Q_{11} = Q_{3} = P(Q_{\infty}) \in \mathbb{F}_{q}$?

(probably yes, if "degree" of f is not very high)

Ac(2, 9)

Art(2eq) = PGu(3, 9)

the stabilizer of $P = P_{1} + P_{2} + P_{3}$ has the shrichine (d) cyclic subgroup of order $q^{2} - q + 1$, $P_{1} = P_{1}$.

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The stabilizer of $P = P_{1} + P_{2} + P_{3}$ has the shrichine (d) cyclic subgroup of order $q^{2} - q + 1$, $P_{1} = P_{1}$. hop: The basis above consists of eigenvectors of a. Frop: We can give the known generators of $C_{\chi}(D(+Q_{ad}, SP))$ in terms of the basis above for S=2g and S=2g+1. (4) Conjecture: dim $C_g(D, sP)|_{F} = \begin{cases} 1 & \text{for } s \leq 2g-1 \\ 7 & \text{for } s = 2g \end{cases}$ q>2We can prove: - dun > ..., we can give the generators explicitely - $S \neq \frac{19}{3}$ $(5) \quad R(X,Y) = X \quad T(Y-c) \qquad \text{in of poss for } c = q^{2}-q$ $deg R = q^2 - q + 1$ ® R(z,y) +0 in the function field, since X9-1-7-47 | R(X,Y). Fg2 (26g) = < 2,7 | 29+1-y-y9=0> \otimes $R(Q_i) = 0$ for all $i = 1, \dots, q^3$ Dir (R) = Q1+... + Q93 - 93 Pa

$$x^{9^{-}} \times = x \left((x^{9^{+}})^{9^{-}} - 1 \right)$$

$$= x \prod (x^{9^{+}} - \alpha) = x \prod (y^{+}y^{9} - \alpha) = x \prod (y^{-}c)$$

$$= x \prod (y^{-}c) = x \prod (y^{-}c) = x \prod (y^{-}c)$$

$$= x \prod (y^{-}c) = R(x_{1}y)$$

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Pup: In the function field, we have $x^9 R(x, y) = y^9 - y$ and $R(x, y) = x^9 - x$.

(6) Trivially:
$$f(Q_i) \in \mathbb{F}_q$$
 for $i = 1, ..., q^3 + 1$

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