Summary: Let $G$ be a classical group over an algebraically closed field of characteristic 2 and let $C$ be an elliptic conjugacy class in the Weyl group. In a previous paper [Represent. Theory 15, 494-530 (2011; Zbl 1263.20045)] the first named author associated to $C$ a unipotent conjugacy class $\Phi(C)$ of $G$. In this paper we show that $\Phi(C)$ can be characterized in terms of the closure relations between unipotent classes. Previously, the analogous result was known in odd characteristic and for exceptional groups in any characteristic.

MSC:
20G15 Linear algebraic groups over arbitrary fields
20E45 Conjugacy classes for groups
20F55 Reflection and Coxeter groups (group-theoretic aspects)

Keywords: classical groups; characteristic 2; elliptic conjugacy classes; Weyl groups; unipotent conjugacy classes

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References:

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