Michael Aaron Geline* (geline@math.niu.edu), Northern Illinois University, Department of Mathematics, Watson Hall, DeKalb, IL 60115. The Brauer Feit bound on irreducible character heights via Knörr lattices. Preliminary report.

If \( p^a \) is the largest power of \( p \) dividing the order of the group \( G \), and \( \chi \) lies in a \( p \)-block with defect \( d \geq 2 \), Brauer and Feit showed that the height of \( \chi \) is at most \( d - 2 \). Assuming an elementary abelian defect group, we will give a new proof of this using the theory of vertices and sources, specifically Knörr lattices. (Received August 31, 2012)