

1154-05-809

G Eric Moorhouse* (moorhous@uwyo.edu), Department of Mathematics, University of Wyoming, Laramie, WY 82071. *Cubical arrays of projective planes*. Preliminary report.

We discuss $N \times N \times N$ cubical arrays of zeroes and ones ($N = n^2 + n + 1$) in which each of the $3N$ ‘slices’ is the incidence matrix of a projective plane of order n . It seems that essentially one construction is known, using only classical planes. Are there others? (Received September 10, 2019)