1033-05-145   **J. R Faudree** and **R. J. Faudree*** (`rfaudree@memphis.edu`), Office of the Provost, 360 Administration Building, Memphis, TN 38152, and **L. Lesniak**. *Minimum Degree and Edge Hamiltonian Digraphs.* Preliminary report.

Let D be a directed graph of order n, and let $\delta(D)$ denote the $\min\{\delta^+(x), \delta^-(x)\}$ for each vertex $x \in D$. It is known that $\delta(D) \geq n/2$ is sufficient to prove that D has a directed hamiltonian cycle, and that this minimum degree is sharp. The question of the minimum degree needed to imply that a directed graph D has a directed hamiltonian cycle containing a collection of directed edges is explored. (Received September 08, 2007)