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Let H be a k -uniform hypergraph, $k \geq 3$. An Euler tour in H is an alternating sequence $v_0, e_1, v_1, e_2, v_2, \dots, v_{m-1}, e_m, v_m = v_0$ of vertices and edges in H such that each edge of H appears in this sequence exactly once and $v_{i-1}, v_i \in e_i, v_{i-1} \neq v_i$, for every $i = 1, 2, \dots, m$. Lonc and Naroski showed that for $k \geq 3$, the problem of determining if a given k -uniform hypergraph has an Euler tour is NP-complete. For $1 \leq \ell \leq k$, the minimum ℓ -degree of $H = (V, E)$ is $\delta_\ell(H) = \min_{S \subseteq V, |S|=\ell} |\{e \mid S \subseteq e, e \in E\}|$. Šajna and Wagner showed that every 3-uniform hypergraph $H = (V, E)$ with $\delta_2(H) \geq 1$ and with $|E| \geq 2$ admits an Euler tour. As a consequence, every k -uniform hypergraph $H = (V, E)$ with $\delta_{k-1}(H) \geq 1$ and with $|E| \geq 2$ has an Euler tour. We investigate existence of Euler tour in k -uniform hypergraphs for $k \geq 4$ under ℓ -degree conditions with $1 \leq \ell \leq k - 2$. In particular, for $k \geq 4$, we show that every k -uniform hypergraph $H = (V, E)$ with $\delta_2(H) \geq k$ or $\delta_{k-2}(H) \geq 4$ and with $|V| \geq \frac{k^2}{2} + \frac{k}{2}$ admits an Euler tour. (Received January 26, 2019)