

1064-20-398

Andrew Rajah* (andy@cs.usm.my), School of Mathematical Sciences, Universiti Sains Malaysia, Penang, 11800 USM , Malaysia, and **Wing Loon Chee** (wlchee@ymail.com), School of Mathematical Sciences, Universiti Sains Malaysia, Penang, 11800 USM , Malaysia. *Moufang loops of odd order pq^4* . Preliminary report.

We have previously proven that all Moufang loops of order pq^3 , where p and q are distinct odd primes, are associative if and only if p cannot divide $q - 1$. We now extend this result by proving that all Moufang loops of order pq^4 , where p and q are distinct odd primes with $p < q$ or $q > 3$, are associative if and only if p cannot divide $q - 1$. (Received September 14, 2010)