Sketch of the proof of Quotiant Mfd Thm: GCM M Sm. proper free. M/G. sm mfd · key: Ocreate transvorsal slice. Y. OY of with each orbit at most once. TM has a "distribution" Dp ≤ TpM 0  $D_p = T_p(G \cdot p)$ 1000 distribution is involutive a. priori. => involutive distribution has so called flat coordinates. U, q. q = Cx1,..., xa, y1, -, y2) s.t. Distribution: is gen by { ]x., -- , ]xn }. =) = transversal slice. Y += += 7x change.