Classical Schothy apportunity appoint of the Solet Fi, Fi > = (Fi, > ** (Fi), Of and Final Da hallbody: (6) [Ax(f2)].
Classical Schothy appoint Span and toxo. The Sort fifty = (fi) N (f2) And first pury lated to Markell Da harles, by: (h) Photography in the second of
Soft fifty and love, and Soft fifty >= (f, > w < f_2), and fire pury latedood of the control of a handle of the control of the
The Society $f_1, f_2 > = \langle f_1 \rangle \times \langle f_2 \rangle$, and f_1 is pury lated to Marked D a handless by: (h) f_1 Ax (f_2) .
The Society $f_1, f_2 > = \langle f_1 \rangle \times \langle f_2 \rangle$, and f_1 is pury lated to Marked D a handless by: (h) f_1 Ax (f_2) .
Manfold Da harleboy:
Markeld Da harlebory:
(4) (Ax(f ₂)
(4) (Ax(f ₂)
(r) P free on two weeks.
(r) P free on two Juents, -(r)/r) 2 Tr (S2,0) which >
the the Dodge & me
(1-(r)/p) -> T (143/p)
hnel:
O (HB/F
14 (9 T. Mr. 9)
$\rho(\tau) = 1$
south ble surface Sin in mentile
J. Daylor J. J. Cattor
incompresible it it D in - inse
incompresible if it or in injection of the injection of t

Thm. (Loop theyen, stated by Stalling, see Hengel Thm. 4.2). (et M be a 3-mulfold & Fash a concept 2-mobil. If N & TI, (F) and br (TI, (F) -> TI, (N)) does not contain B not cotained in N, then the is a B2, 202) <> (4, F) hr (7, (F) -> TI(M)) is nortiva for for is an embedded do. in M with DD = F pontriv, al.

Prp. Aswfare Sc>M P incompressible off it? not Si2 or D2, and for ever embedded Joh Dc>M with DCF, DD bombs a doc on F. In our example: embedded tix in 1 the does not bound addreson F. Proof: > Suppose SC>M D a surface which

Brits2 or 102, and the ends on embeddle

Lisk DC>M that his DOCF hat DD

does not bed a dor. The DD represts

Ansystem lease on T, (F) mak D contraction The Malay D. So TI, (F) > TI, (M) > pot more.

E". Sign that H, (F) > TI, (M) > nontrol.

The by theop than, the parentedded Later

W/ he damed prepares. O. RMM. We can quale or docum st The Solothy up as follows. Supper To boom from 1Clein, and 2 CO/FD Compression in 145/F. The the britishing Compression of manpewille, and - F= F, * Fz (if D separa HB/F, out Fi, Fz on the TI, of the hoso F= Fo to (if D dos at separte.) G. M-T Thum 2.58.

Let F be a surface with banday of M.

For oull dissolve M cobounded by 2 up
Sd. a = Dr. F., B = Dr. DM the

something against, a D F 51. au or cobounds access D, tho o just congeon aly on band cong. up to Let k-T(P,g) be a tory ht, tak FITI h in 53/2. The AT FO by many with. Trolled Suppose DPa bly Commin Loc Then DD lies on FUDGS(W) = \$50\$ TI. 50 D Cry on Dose whe I \$to. TIZory. Here Dx Ent bell dy a resident or a longhole ATZ.

Bo we can't decompose a jurier and a layther

Tato a south as of k and a single on in F.

ehn. A pooply what she FEM o essent if one of the filly helds: Fra 2-sph. flat does not bound a 3-but I Fra dix and eith DFC DM does not a doe or of or of durby is a loc such the if DFCOM bouls a doctor of the EUF banks a 3-bellin 1; To comperity 2 of body problet. han A mariful A fort contains: court he hyporbolis. Post: un ceum. A sattelite but is not hypothexis A mill has any him by compo and D not hapfalk. Supper M 7 hypotale. The copie and of A is solope to DM. By hypotalisty, or is solope to a cop. In pohing, or THE DODOPE to a scop. In por Some pouldie, him A o retained 2 street of Destroyer to a both come of set casation. Buy his do not have highlic comput.

In Each, the are the only skotants: a home subcline of a for the. Thin A knot complete \$311 is geometric

(i.e. adab a (& XI-str. for X a) Think

geomby) iff k sall sall br. It

phypulate iff it is near satellite nor & Seifart Fibred Spurs. Detr. We endan Sc(2,1R) with a geombre. Consider the adjoint action of SL(2,1R) on sl(2,1R). The Lilling form of se(2/12), has signed (2,1), and

B(xY): utr(KY)

So lived seb of to firm one 1H213 which are orbited the

SU(2/12)-ach. Pant stabilisms are O(2)~51, 10 SL(2,R) = H2×S' and SL(2,R) Da by line bushow M2. Example. The form but a SC(2,1R)/18L(2,20). (Proof: Mihor, Aly K-then, Ex. 1.5.2). n. A trivial fibral sold tours P S'x 02 -12 torsial folials (s'x 222) x = D2. A fibrell fus is a south for whom s'. Si. Solials for Scifut figures of a fiber of M st. each fiber or a riber what of Most close fiber.

hn. If 53(h adabs a Seifert Abation,
the Falus an SL(211R) - geomb and
A 1/2× 1E'- geomb, wherein is rigid. tf (i) n line ask 5311 alub a Seift
Stocker iff Z(7,(10)×1 th

tf king het, he 531kis Seift fine

tf king hes het. - Hypuboll hos - tors hats (adat Seifert Fibrels)

- Safellike has (adat fors decompohings
(not geowhat) pieces what are not satellike)

- hypobolic hts. =) only 3 Thorto gunts are posible.