

Table I

17 de agosto de 2022

Table I: Links ramified over connected sums of $S^2 \times S^3$ on Chletsov's list

$X_d \subset \mathbb{CP}(1, w_1, w_2, w_3, w_4)$	$H_3(M, \mathbb{Z})$	k
$X_8 \subset \mathbb{CP}(1, 1, 1, 2, 4)$	$\mathbb{Z}^{128} \oplus \mathbb{Z}_4$	19
$X_8 \subset \mathbb{CP}(2, 2, 3, 1, 1)$	$\mathbb{Z}^{90} \oplus \mathbb{Z}_8 \oplus (\mathbb{Z}_2)^2$	15
$X_9 \subset \mathbb{CP}(3, 1, 4, 1, 1)$	$\mathbb{Z}^{142} \oplus \mathbb{Z}_3$	18
$X_9 \subset \mathbb{CP}(3, 3, 2, 1, 1)$	$\mathbb{Z}^{98} \oplus \mathbb{Z}_9 \oplus \mathbb{Z}_3$	14
$X_{10} \subset \mathbb{CP}(5, 1, 3, 1, 1)$	$\mathbb{Z}^{170} \oplus \mathbb{Z}_2$	19
$X_{10} \subset \mathbb{CP}(1, 1, 2, 2, 5)$	$\mathbb{Z}^{128} \oplus (\mathbb{Z}_2)^4$	16
$X_{10} \subset \mathbb{CP}(2, 4, 3, 1, 1)$	$\mathbb{Z}^{112} \oplus \mathbb{Z}_{10} \oplus \mathbb{Z}_2$	14
$X_{11} \subset \mathbb{CP}(1, 5, 3, 2, 1)$	$\mathbb{Z}^{130} \oplus \mathbb{Z}_{11}$	14
$X_{12} \subset \mathbb{CP}(1, 1, 2, 3, 6)$	$\mathbb{Z}^{150} \oplus \mathbb{Z}_{12}$	13
$X_{12} \subset \mathbb{CP}(4, 2, 5, 1, 1)$	$\mathbb{Z}^{140} \oplus \mathbb{Z}_6 \oplus \mathbb{Z}_2$	14
$X_{12} \subset \mathbb{CP}(1, 1, 3, 4, 4)$	$\mathbb{Z}^{120} \oplus (\mathbb{Z}_4)^2$	12
$X_{12} \subset \mathbb{CP}(3, 2, 2, 5, 1)$	$\mathbb{Z}^{94} \oplus \mathbb{Z}_4 \oplus (\mathbb{Z}_2)^4$	11
$X_{12} \subset \mathbb{CP}(1, 2, 3, 3, 4)$	$\mathbb{Z}^{80} \oplus (\mathbb{Z}_6)^2 \oplus \mathbb{Z}_3$	10
$X_{13} \subset \mathbb{CP}(1, 4, 3, 5, 1)$	$\mathbb{Z}^{132} \oplus \mathbb{Z}_{13}$	12
$X_{14} \subset \mathbb{CP}(7, 2, 4, 1, 1)$	$\mathbb{Z}^{180} \oplus (\mathbb{Z}_2)^3$	15
$X_{14} \subset \mathbb{CP}(7, 2, 2, 3, 1)$	$\mathbb{Z}^{120} \oplus (\mathbb{Z}_2)^6$	12
$X_{14} \subset \mathbb{CP}(2, 4, 5, 3, 1)$	$\mathbb{Z}^{90} \oplus \mathbb{Z}_{14} \oplus (\mathbb{Z}_2)^2$	9

$X_d \subset \mathbb{CP}(1, w_1, w_2, w_3, w_4)$	$H_3(M, \mathbb{Z})$	k
$X_{15} \subset \mathbb{CP}(5, 2, 1, 7, 1)$	$\mathbb{Z}^{194} \oplus \mathbb{Z}_3$	14
$X_{15} \subset \mathbb{CP}(3, 4, 1, 7, 1)$	$\mathbb{Z}^{164} \oplus \mathbb{Z}_5$	12
$X_{15} \subset \mathbb{CP}(5, 3, 6, 1, 1)$	$\mathbb{Z}^{156} \oplus (\mathbb{Z}_3)^2$	12
$X_{15} \subset \mathbb{CP}(3, 5, 5, 2, 1)$	$\mathbb{Z}^{96} \oplus (\mathbb{Z}_5)^2$	8
$X_{15} \subset \mathbb{CP}(5, 3, 3, 4, 1)$	$\mathbb{Z}^{80} \oplus (\mathbb{Z}_3)^4$	8
$X_{16} \subset \mathbb{CP}(8, 2, 1, 5, 1)$	$\mathbb{Z}^{216} \oplus \mathbb{Z}_4$	15
$X_{16} \subset \mathbb{CP}(8, 4, 3, 1, 1)$	$\mathbb{Z}^{182} \oplus \mathbb{Z}_8$	13
$X_{16} \subset \mathbb{CP}(4, 6, 5, 1, 1)$	$\mathbb{Z}^{154} \oplus \mathbb{Z}_8$	11
$X_{16} \subset \mathbb{CP}(4, 2, 7, 3, 1)$	$\mathbb{Z}^{108} \oplus \mathbb{Z}_8 \oplus (\mathbb{Z}_2)^2$	9
$X_{17} \subset \mathbb{CP}(1, 2, 5, 3, 7)$	$\mathbb{Z}^{112} \oplus \mathbb{Z}_{17}$	8
$X_{18} \subset \mathbb{CP}(1, 1, 2, 6, 9)$	$\mathbb{Z}^{256} \oplus (\mathbb{Z}_2)^2$	14
$X_{18} \subset \mathbb{CP}(9, 3, 5, 1, 1)$	$\mathbb{Z}^{208} \oplus \mathbb{Z}_6$	13
$X_{18} \subset \mathbb{CP}(6, 4, 7, 1, 1)$	$\mathbb{Z}^{176} \oplus \mathbb{Z}_6$	11
$X_{18} \subset \mathbb{CP}(9, 3, 2, 4, 1)$	$\mathbb{Z}^{130} \oplus \mathbb{Z}_6 \oplus (\mathbb{Z}_2)^3$	10
$X_{18} \subset \mathbb{CP}(3, 2, 8, 5, 1)$	$\mathbb{Z}^{122} \oplus \mathbb{Z}_6 \oplus \mathbb{Z}_2$	8
$X_{18} \subset \mathbb{CP}(6, 4, 3, 5, 1)$	$\mathbb{Z}^{84} \oplus \mathbb{Z}_{18} \oplus \mathbb{Z}_3$	7
$X_{19} \subset \mathbb{CP}(1, 3, 4, 5, 7)$	$\mathbb{Z}^{90} \oplus \mathbb{Z}_{19}$	6
$X_{20} \subset \mathbb{CP}(1, 1, 4, 5, 10)$	$\mathbb{Z}^{216} \oplus \mathbb{Z}_5$	12
$X_{20} \subset \mathbb{CP}(5, 10, 2, 3, 1)$	$\mathbb{Z}^{144} \oplus \mathbb{Z}_{20}$	9
$X_{20} \subset \mathbb{CP}(5, 4, 2, 9, 1)$	$\mathbb{Z}^{124} \oplus (\mathbb{Z}_2)^4$	8
$X_{20} \subset \mathbb{CP}(5, 2, 6, 7, 1)$	$\mathbb{Z}^{110} \oplus \mathbb{Z}_4 \oplus (\mathbb{Z}_2)^2$	7
$X_{20} \subset \mathbb{CP}(5, 4, 8, 3, 1)$	$\mathbb{Z}^{96} \oplus (\mathbb{Z}_4)^2$	6
$X_{21} \subset \mathbb{CP}(7, 1, 5, 8, 1)$	$\mathbb{Z}^{198} \oplus \mathbb{Z}_3$	12
$X_{21} \subset \mathbb{CP}(7, 3, 9, 2, 1)$	$\mathbb{Z}^{144} \oplus (\mathbb{Z}_3)^2$	10
$X_{21} \subset \mathbb{CP}(7, 3, 6, 5, 1)$	$\mathbb{Z}^{90} \oplus (\mathbb{Z}_3)^3$	8
$X_{22} \subset \mathbb{CP}(11, 1, 7, 3, 1)$	$\mathbb{Z}^{272} \oplus \mathbb{Z}_2$	13

$X_d \subset \mathbb{CP}(1, w_1, w_2, w_3, w_4)$	$H_3(M, \mathbb{Z})$	k
$X_{22} \subset \mathbb{CP}(11, 1, 1, 6, 4)$	$\mathbb{Z}^{240} \oplus (\mathbb{Z}_2)^2$	12
$X_{24} \subset \mathbb{CP}(1, 1, 3, 8, 12)$	$\mathbb{Z}^{308} \oplus \mathbb{Z}_3$	15
$X_{24} \subset \mathbb{CP}(8, 6, 9, 1, 1)$	$\mathbb{Z}^{220} \oplus \mathbb{Z}_3$	10
$X_{24} \subset \mathbb{CP}(2, 12, 3, 7, 1)$	$\mathbb{Z}^{178} \oplus \mathbb{Z}_{12}$	9
$X_{24} \subset \mathbb{CP}(3, 8, 2, 11, 1)$	$\mathbb{Z}^{174} \oplus (\mathbb{Z}_2)^2$	8
$X_{24} \subset \mathbb{CP}(3, 12, 4, 5, 1)$	$\mathbb{Z}^{126} \oplus \mathbb{Z}_{24}$	7
$X_{24} \subset \mathbb{CP}(3, 4, 10, 7, 1)$	$\mathbb{Z}^{114} \oplus \mathbb{Z}_4$	5
$X_{24} \subset \mathbb{CP}(8, 6, 3, 7, 1)$	$\mathbb{Z}^{96} \oplus (\mathbb{Z}_3)^3$	6
$X_{24} \subset \mathbb{CP}(4, 6, 9, 5, 1)$	$\mathbb{Z}^{90} \oplus \mathbb{Z}_{12}$	5
$X_{25} \subset \mathbb{CP}(5, 4, 7, 9, 1)$	$\mathbb{Z}^{92} \oplus \mathbb{Z}_5$	4
$X_{26} \subset \mathbb{CP}(13, 1, 5, 7, 1)$	$\mathbb{Z}^{274} \oplus \mathbb{Z}_2$	11
$X_{26} \subset \mathbb{CP}(13, 2, 8, 3, 1)$	$\mathbb{Z}^{198} \oplus (\mathbb{Z}_2)^3$	9
$X_{26} \subset \mathbb{CP}(13, 2, 6, 5, 1)$	$\mathbb{Z}^{160} \oplus (\mathbb{Z}_2)^4$	8
$X_{27} \subset \mathbb{CP}(9, 2, 5, 11, 1)$	$\mathbb{Z}^{154} \oplus \mathbb{Z}_3$	6
$X_{27} \subset \mathbb{CP}(9, 6, 7, 5, 1)$	$\mathbb{Z}^{84} \oplus \mathbb{Z}_9$	4
$X_{28} \subset \mathbb{CP}(4, 14, 7, 3, 1)$	$\mathbb{Z}^{144} \oplus \mathbb{Z}_7$	12
$X_{28} \subset \mathbb{CP}(7, 4, 6, 11, 1)$	$\mathbb{Z}^{98} \oplus (\mathbb{Z}_2)^2$	6
$X_{30} \subset \mathbb{CP}(15, 10, 4, 1, 1)$	$\mathbb{Z}^{364} \oplus \mathbb{Z}_2$	13
$X_{30} \subset \mathbb{CP}(15, 6, 8, 1, 1)$	$\mathbb{Z}^{308} \oplus \mathbb{Z}_2$	11
$X_{30} \subset \mathbb{CP}(1, 2, 3, 10, 15)$	$\mathbb{Z}^{242} \oplus \mathbb{Z}_6 \oplus \mathbb{Z}_2$	5
$X_{30} \subset \mathbb{CP}(15, 6, 2, 7, 1)$	$\mathbb{Z}^{176} \oplus (\mathbb{Z}_2)^4$	8
$X_{30} \subset \mathbb{CP}(3, 10, 4, 13, 1)$	$\mathbb{Z}^{148} \oplus \mathbb{Z}_2$	4
$X_{30} \subset \mathbb{CP}(15, 5, 6, 4, 1)$	$\mathbb{Z}^{124} \oplus \mathbb{Z}_{10} \oplus \mathbb{Z}_2$	6
$X_{30} \subset \mathbb{CP}(5, 6, 8, 11, 1)$	$\mathbb{Z}^{92} \oplus \mathbb{Z}_2$	3
$X_{32} \subset \mathbb{CP}(16, 2, 5, 9, 1)$	$\mathbb{Z}^{200} \oplus \mathbb{Z}_4$	7
$X_{32} \subset \mathbb{CP}(16, 4, 7, 5, 1)$	$\mathbb{Z}^{130} \oplus \mathbb{Z}_8$	5

$X_d \subset \mathbb{CP}(1, w_1, w_2, w_3, w_4)$	$H_3(M, \mathbb{Z})$	k
$X_{34} \subset \mathbb{CP}(17, 1, 3, 10, 4)$	$\mathbb{Z}^{180} \oplus (\mathbb{Z}_2)^2$	6
$X_{36} \subset \mathbb{CP}(4, 18, 3, 11, 1)$	$\mathbb{Z}^{194} \oplus \mathbb{Z}_3$	6
$X_{36} \subset \mathbb{CP}(9, 12, 8, 7, 1)$	$\mathbb{Z}^{84} \oplus \mathbb{Z}_4$	5
$X_{38} \subset \mathbb{CP}(19, 1, 11, 3, 5)$	$\mathbb{Z}^{184} \oplus \mathbb{Z}_2$	5
$X_{40} \subset \mathbb{CP}(8, 20, 5, 7, 1)$	$\mathbb{Z}^{128} \oplus \mathbb{Z}_5$	4
$X_{42} \subset \mathbb{CP}(21, 14, 2, 5, 1)$	$\mathbb{Z}^{288} \oplus (\mathbb{Z}_2)^2$	8
$X_{42} \subset \mathbb{CP}(21, 3, 14, 4, 1)$	$\mathbb{Z}^{240} \oplus \mathbb{Z}_6$	7
$X_{48} \subset \mathbb{CP}(16, 24, 3, 5, 1)$	$\mathbb{Z}^{252} \oplus \mathbb{Z}_3$	4
$X_{50} \subset \mathbb{CP}(25, 10, 8, 7, 1)$	$\mathbb{Z}^{126} \oplus \mathbb{Z}_2$	3
$X_{54} \subset \mathbb{CP}(27, 18, 4, 5, 1)$	$\mathbb{Z}^{240} \oplus \mathbb{Z}_2$	5