

TRANSVERSAL COSET PARTITIONS OF GROUPS: APPENDIX

FUSUN AKMAN AND PAPA A. SISSOKHO

ABSTRACT. This Appendix contains some of the program outputs used in Theorem 6 of the main paper.

1. APPENDIX: UNIT FRACTIONS

- List of multisets of indices of potential counterexamples (i.e., no two indices are the same or are relatively prime) for at most 6 subgroups ($2 \leq r \leq 6$). Note that all such multisets include 2.

[12,6,4,2], [84,14,6,4,2], [48,16,6,4,2], [36,18,6,4,2], [30,20,6,4,2], [40,10,8,4,2], [24,12,8,4,2], [3612,86,14,6,4,2], [1848,88,14,6,4,2], [1260,90,14,6,4,2], [966,92,14,6,4,2], [672,96,14,6,4,2], [588,98,14,6,4,2], [476,102,14,6,4,2], [378,108,14,6,4,2], [336,112,14,6,4,2], [280,120,14,6,4,2], [252,126,14,6,4,2], [210,140,14,6,4,2], [182,156,14,6,4,2], [1200,50,16,6,4,2], [624,52,16,6,4,2], [432,54,16,6,4,2], [336,56,16,6,4,2], [240,60,16,6,4,2], [192,64,16,6,4,2], [176,66,16,6,4,2], [144,72,16,6,4,2], [120,80,16,6,4,2], [112,84,16,6,4,2], [684,38,18,6,4,2], [360,40,18,6,4,2], [252,42,18,6,4,2], [198,44,18,6,4,2], [144,48,18,6,4,2], [108,54,18,6,4,2], [90,60,18,6,4,2], [480,32,20,6,4,2], [180,36,20,6,4,2], [120,40,20,6,4,2], [80,48,20,6,4,2], [462,28,22,6,4,2], [220,30,22,6,4,2], [66,44,22,6,4,2], [312,26,24,6,4,2], [168,28,24,6,4,2], [120,30,24,6,4,2], [96,32,24,6,4,2], [72,36,24,6,4,2], [60,40,24,6,4,2], [56,42,24,6,4,2], [70,30,28,6,4,2], [840,42,10,8,4,2], [440,44,10,8,4,2], [240,48,10,8,4,2], [200,50,10,8,4,2], [140,56,10,8,4,2], [120,60,10,8,4,2], [90,72,10,8,4,2], [312,26,12,8,4,2], [168,28,12,8,4,2], [120,30,12,8,4,2], [96,32,12,8,4,2], [72,36,12,8,4,2], [60,40,12,8,4,2], [56,42,12,8,4,2], [280,20,14,8,4,2], [84,24,14,8,4,2], [56,28,14,8,4,2], [144,18,16,8,4,2], [80,20,16,8,4,2], [48,24,16,8,4,2], [36,24,18,8,4,2], [30,24,20,8,4,2], [240,16,12,10,4,2], [90,18,12,10,4,2], [60,20,12,10,4,2], [40,24,12,10,4,2], [40,12,10,8,6,2]

- List of multisets of indices of potential counterexamples ((i.e., no two indices are the same or are relatively prime) for 7 subgroups ($r = 7$). Note that all such multisets include 2.

Potential counterexamples for 7 subgroups: [[6526884,3614,86,14,6,4,2], [3265248,3616,86,14,6,4,2], [2178036,3618,86,14,6,4,2], [1634430,3620,86,14,6,4,2], [1090824,3624,86,14,6,4,2], [935508,3626,86,14,6,4,2], [728420,3630,86,14,6,4,2], [547218,3636,86,14,6,4,2], [469560,3640,86,14,6,4,2], [366016,3648,86,14,6,4,2], [314244,3654,86,14,6,4,2], [236586,3668,86,14,6,4,2], [184814,3684,86,14,6,4,2], [158928,3696,86,14,6,4,2], [155316,3698,86,14,6,4,2], [136740,3710,86,14,6,4,2], [107156,3738,86,14,6,4,2], [81270,3780,86,14,6,4,2], [79464,3784,86,14,6,4,2], [70176,3808,86,14,6,4,2], [55384,3864,86,14,6,4,2], [54180,3870,86,14,6,4,2], [47988,3906,86,14,6,4,2], [41538,3956,86,14,6,4,2], [36894,4004,86,14,6,4,2], [29498,4116,86,14,6,4,2], [28896,4128,86,14,6,4,2], [25800,4200,86,14,6,4,2], [25284,4214,86,14,6,4,2], [20468,4386,86,14,6,4,2], [18404,4494,86,14,6,4,2], [16254,4644,86,14,6,4,2], [14706,4788,86,14,6,4,2], [14448,4816,86,14,6,4,2], [12040,5160,86,14,6,4,2], [11008,5376,86,14,6,4,2], [10836,5418,86,14,6,4,2],

[9030,6020,86,14,6,4,2], [7826,6708,86,14,6,4,2], [7310,7140,86,14,6,4,2], [1709400,1850,88,14,6,4,2],
 [855624,1852,88,14,6,4,2], [571032,1854,88,14,6,4,2], [428736,1856,88,14,6,4,2], [286440,1860,88,14,6,4,2],
 [245784,1862,88,14,6,4,2], [215292,1864,88,14,6,4,2], [191576,1866,88,14,6,4,2], [157080,1870,88,14,6,4,2],
 [144144,1872,88,14,6,4,2], [123816,1876,88,14,6,4,2], [108570,1880,88,14,6,4,2], [96712,1884,88,14,6,4,2],
 [83160,1890,88,14,6,4,2], [79464,1892,88,14,6,4,2], [72996,1896,88,14,6,4,2], [62832,1904,88,14,6,4,2],
 [53592,1914,88,14,6,4,2], [49280,1920,88,14,6,4,2], [42504,1932,88,14,6,4,2], [40656,1936,88,14,6,4,2],
 [37422,1944,88,14,6,4,2], [36696,1946,88,14,6,4,2], [32340,1960,88,14,6,4,2], [28952,1974,88,14,6,4,2],
 [27720,1980,88,14,6,4,2], [25564,1992,88,14,6,4,2], [24024,2002,88,14,6,4,2], [22176,2016,88,14,6,4,2],
 [21252,2024,88,14,6,4,2], [19272,2044,88,14,6,4,2], [19096,2046,88,14,6,4,2], [17094,2072,88,14,6,4,2],
 [15960,2090,88,14,6,4,2], [15400,2100,88,14,6,4,2], [14784,2112,88,14,6,4,2], [13706,2136,88,14,6,4,2],
 [13464,2142,88,14,6,4,2], [12936,2156,88,14,6,4,2], [12012,2184,88,14,6,4,2], [11550,2200,88,14,6,4,2],
 [10560,2240,88,14,6,4,2], [10472,2244,88,14,6,4,2], [9240,2310,88,14,6,4,2], [8904,2332,88,14,6,4,2],
 [8624,2352,88,14,6,4,2], [8316,2376,88,14,6,4,2], [7656,2436,88,14,6,4,2], [7392,2464,88,14,6,4,2],
 [6930,2520,88,14,6,4,2], [6552,2574,88,14,6,4,2], [6204,2632,88,14,6,4,2], [6160,2640,88,14,6,4,2],
 [5720,2730,88,14,6,4,2], [5544,2772,88,14,6,4,2], [5376,2816,88,14,6,4,2], [5236,2856,88,14,6,4,2],
 [5082,2904,88,14,6,4,2], [5016,2926,88,14,6,4,2], [4752,3024,88,14,6,4,2], [4620,3080,88,14,6,4,2],
 [4312,3234,88,14,6,4,2], [4200,3300,88,14,6,4,2], [4026,3416,88,14,6,4,2], [4004,3432,88,14,6,4,2],
 [3864,3542,88,14,6,4,2], [3784,3612,88,14,6,4,2], [795060,1262,90,14,6,4,2], [398160,1264,90,14,6,4,2],
 [265860,1266,90,14,6,4,2], [199710,1268,90,14,6,4,2], [160020,1270,90,14,6,4,2], [133560,1272,90,14,6,4,2],
 [114660,1274,90,14,6,4,2], [89460,1278,90,14,6,4,2], [80640,1280,90,14,6,4,2], [67410,1284,90,14,6,4,2],
 [57960,1288,90,14,6,4,2], [54180,1290,90,14,6,4,2], [45360,1296,90,14,6,4,2], [40950,1300,90,14,6,4,2],
 [39060,1302,90,14,6,4,2], [33012,1310,90,14,6,4,2], [30660,1314,90,14,6,4,2], [29610,1316,90,14,6,4,2],
 [27720,1320,90,14,6,4,2], [23940,1330,90,14,6,4,2], [23310,1332,90,14,6,4,2], [20160,1344,90,14,6,4,2],
 [18900,1350,90,14,6,4,2], [17460,1358,90,14,6,4,2], [17136,1360,90,14,6,4,2], [15960,1368,90,14,6,4,2],
 [14490,1380,90,14,6,4,2], [13860,1386,90,14,6,4,2], [12600,1400,90,14,6,4,2], [11844,1410,90,14,6,4,2],
 [11060,1422,90,14,6,4,2], [10710,1428,90,14,6,4,2], [10080,1440,90,14,6,4,2], [9360,1456,90,14,6,4,2],
 [9198,1460,90,14,6,4,2], [8820,1470,90,14,6,4,2], [8610,1476,90,14,6,4,2], [7560,1512,90,14,6,4,2],
 [7140,1530,90,14,6,4,2], [6930,1540,90,14,6,4,2], [6660,1554,90,14,6,4,2], [6552,1560,90,14,6,4,2],
 [6160,1584,90,14,6,4,2], [5796,1610,90,14,6,4,2], [5670,1620,90,14,6,4,2], [5460,1638,90,14,6,4,2],
 [5310,1652,90,14,6,4,2], [5040,1680,90,14,6,4,2], [4788,1710,90,14,6,4,2], [4500,1750,90,14,6,4,2],
 [4410,1764,90,14,6,4,2], [4200,1800,90,14,6,4,2], [3960,1848,90,14,6,4,2], [3906,1860,90,14,6,4,2],
 [3780,1890,90,14,6,4,2], [3710,1908,90,14,6,4,2], [3528,1960,90,14,6,4,2], [3360,2016,90,14,6,4,2],
 [3220,2070,90,14,6,4,2], [3150,2100,90,14,6,4,2], [3060,2142,90,14,6,4,2], [3024,2160,90,14,6,4,2],
 [2880,2240,90,14,6,4,2], [2772,2310,90,14,6,4,2], [2730,2340,90,14,6,4,2], [2660,2394,90,14,6,4,2],
 [2610,2436,90,14,6,4,2], [467544,968,92,14,6,4,2], [156492,972,92,14,6,4,2], [67620,980,92,14,6,4,2],
 [52808,984,92,14,6,4,2], [23184,1008,92,14,6,4,2], [21252,1012,92,14,6,4,2], [10488,1064,92,14,6,4,2],
 [8372,1092,92,14,6,4,2], [7728,1104,92,14,6,4,2], [4140,1260,92,14,6,4,2], [3864,1288,92,14,6,4,2],
 [3220,1380,92,14,6,4,2], [2024,1848,92,14,6,4,2], [1559460,790,94,14,6,4,2], [260568,792,94,14,6,4,2],
 [75012,798,94,14,6,4,2], [44086,804,94,14,6,4,2], [13160,840,94,14,6,4,2], [11844,846,94,14,6,4,2],
 [8742,868,94,14,6,4,2], [4324,966,94,14,6,4,2], [2632,1128,94,14,6,4,2], [1974,1316,94,14,6,4,2],
 [226464,674,96,14,6,4,2], [113568,676,96,14,6,4,2], [75936,678,96,14,6,4,2], [57120,680,96,14,6,4,2],
 [38304,684,96,14,6,4,2], [32928,686,96,14,6,4,2], [28896,688,96,14,6,4,2], [25760,690,96,14,6,4,2],
 [19488,696,96,14,6,4,2], [16800,700,96,14,6,4,2], [14784,704,96,14,6,4,2], [13216,708,96,14,6,4,2],
 [11424,714,96,14,6,4,2], [10080,720,96,14,6,4,2], [8736,728,96,14,6,4,2], [7728,736,96,14,6,4,2],
 [6944,744,96,14,6,4,2], [6048,756,96,14,6,4,2], [5376,768,96,14,6,4,2], [5280,770,96,14,6,4,2],
 [4704,784,96,14,6,4,2], [4256,798,96,14,6,4,2], [4200,800,96,14,6,4,2], [3808,816,96,14,6,4,2],

[3360,840,96,14,6,4,2], [3024,864,96,14,6,4,2], [2976,868,96,14,6,4,2], [2688,896,96,14,6,4,2],
 [2464,924,96,14,6,4,2], [2436,928,96,14,6,4,2], [2240,960,96,14,6,4,2], [2208,966,96,14,6,4,2],
 [2016,1008,96,14,6,4,2], [1848,1056,96,14,6,4,2], [1824,1064,96,14,6,4,2], [1680,1120,96,14,6,4,2],
 [1568,1176,96,14,6,4,2], [1554,1184,96,14,6,4,2], [1456,1248,96,14,6,4,2], [1440,1260,96,14,6,4,2],
 [173460,590,98,14,6,4,2], [87024,592,98,14,6,4,2], [58212,594,98,14,6,4,2], [43806,596,98,14,6,4,2],
 [29400,600,98,14,6,4,2], [25284,602,98,14,6,4,2], [19796,606,98,14,6,4,2], [14994,612,98,14,6,4,2],
 [12936,616,98,14,6,4,2], [10192,624,98,14,6,4,2], [8820,630,98,14,6,4,2], [6762,644,98,14,6,4,2],
 [5390,660,98,14,6,4,2], [4704,672,98,14,6,4,2], [4116,686,98,14,6,4,2], [3332,714,98,14,6,4,2],
 [2646,756,98,14,6,4,2], [2352,784,98,14,6,4,2], [1960,840,98,14,6,4,2], [1764,882,98,14,6,4,2],
 [1470,980,98,14,6,4,2], [1274,1092,98,14,6,4,2], [276150,526,100,14,6,4,2], [92400,528,100,14,6,4,2],
 [55650,530,100,14,6,4,2], [39900,532,100,14,6,4,2], [31150,534,100,14,6,4,2], [18900,540,100,14,6,4,2],
 [13650,546,100,14,6,4,2], [11550,550,100,14,6,4,2], [8400,560,100,14,6,4,2], [6650,570,100,14,6,4,2],
 [6150,574,100,14,6,4,2], [4900,588,100,14,6,4,2], [4200,600,100,14,6,4,2], [3150,630,100,14,6,4,2],
 [2730,650,100,14,6,4,2], [2400,672,100,14,6,4,2], [2100,700,100,14,6,4,2], [1750,750,100,14,6,4,2],
 [1650,770,100,14,6,4,2], [1400,840,100,14,6,4,2], [1260,900,100,14,6,4,2], [1150,966,100,14,6,4,2],
 [113764,478,102,14,6,4,2], [57120,480,102,14,6,4,2], [28798,484,102,14,6,4,2], [16660,490,102,14,6,4,2],
 [8568,504,102,14,6,4,2], [7140,510,102,14,6,4,2], [4522,532,102,14,6,4,2], [3808,544,102,14,6,4,2],
 [2788,574,102,14,6,4,2], [2142,612,102,14,6,4,2], [1632,672,102,14,6,4,2], [1428,714,102,14,6,4,2],
 [1054,868,102,14,6,4,2], [159432,438,104,14,6,4,2], [60060,440,104,14,6,4,2], [37128,442,104,14,6,4,2],
 [26936,444,104,14,6,4,2], [17472,448,104,14,6,4,2], [10374,456,104,14,6,4,2], [8008,462,104,14,6,4,2],
 [6552,468,104,14,6,4,2], [5304,476,104,14,6,4,2], [3276,504,104,14,6,4,2], [2730,520,104,14,6,4,2],
 [2184,546,104,14,6,4,2], [1848,572,104,14,6,4,2], [1456,624,104,14,6,4,2], [1248,672,104,14,6,4,2],
 [1092,728,104,14,6,4,2], [910,840,104,14,6,4,2], [129108,406,106,14,6,4,2], [50456,408,106,14,6,4,2],
 [11130,420,106,14,6,4,2], [8904,424,106,14,6,4,2], [71820,380,108,14,6,4,2], [24192,384,108,14,6,4,2],
 [10584,392,108,14,6,4,2], [8316,396,108,14,6,4,2], [3780,420,108,14,6,4,2], [3024,432,108,14,6,4,2],
 [1836,476,108,14,6,4,2], [1512,504,108,14,6,4,2], [1260,540,108,14,6,4,2], [864,672,108,14,6,4,2],
 [205590,356,110,14,6,4,2], [27720,360,110,14,6,4,2], [7140,374,110,14,6,4,2], [5940,378,110,14,6,4,2],
 [4004,390,110,14,6,4,2], [2310,420,110,14,6,4,2], [1848,440,110,14,6,4,2], [1540,462,110,14,6,4,2],
 [840,616,110,14,6,4,2], [770,660,110,14,6,4,2], [56784,338,112,14,6,4,2], [28560,340,112,14,6,4,2],
 [19152,342,112,14,6,4,2], [14448,344,112,14,6,4,2], [9744,348,112,14,6,4,2], [8400,350,112,14,6,4,2],
 [7392,352,112,14,6,4,2], [6608,354,112,14,6,4,2], [5040,360,112,14,6,4,2], [4368,364,112,14,6,4,2],
 [3864,368,112,14,6,4,2], [3472,372,112,14,6,4,2], [3024,378,112,14,6,4,2], [2688,384,112,14,6,4,2],
 [2352,392,112,14,6,4,2], [2100,400,112,14,6,4,2], [1904,408,112,14,6,4,2], [1680,420,112,14,6,4,2],
 [1512,432,112,14,6,4,2], [1488,434,112,14,6,4,2], [1344,448,112,14,6,4,2], [1232,462,112,14,6,4,2],
 [1218,464,112,14,6,4,2], [1120,480,112,14,6,4,2], [1008,504,112,14,6,4,2], [924,528,112,14,6,4,2],
 [912,532,112,14,6,4,2], [840,560,112,14,6,4,2], [784,588,112,14,6,4,2], [728,624,112,14,6,4,2],
 [720,630,112,14,6,4,2], [127680,320,114,14,6,4,2], [36708,322,114,14,6,4,2], [21546,324,114,14,6,4,2],
 [6384,336,114,14,6,4,2], [4788,342,114,14,6,4,2], [2052,378,114,14,6,4,2], [1330,420,114,14,6,4,2],
 [1064,456,114,14,6,4,2], [798,532,114,14,6,4,2], [672,608,114,14,6,4,2], [62118,306,116,14,6,4,2],
 [26796,308,116,14,6,4,2], [3248,336,116,14,6,4,2], [2436,348,116,14,6,4,2], [1566,378,116,14,6,4,2],
 [1218,406,116,14,6,4,2], [180894,292,118,14,6,4,2], [34692,294,118,14,6,4,2], [1652,354,118,14,6,4,2],
 [39480,282,120,14,6,4,2], [19880,284,120,14,6,4,2], [10080,288,120,14,6,4,2], [8120,290,120,14,6,4,2],
 [5880,294,120,14,6,4,2], [5180,296,120,14,6,4,2], [4200,300,120,14,6,4,2], [3080,308,120,14,6,4,2],
 [2730,312,120,14,6,4,2], [2240,320,120,14,6,4,2], [1848,330,120,14,6,4,2], [1680,336,120,14,6,4,2],
 [1400,350,120,14,6,4,2], [1260,360,120,14,6,4,2], [1080,378,120,14,6,4,2], [1064,380,120,14,6,4,2],
 [980,392,120,14,6,4,2], [840,420,120,14,6,4,2], [770,440,120,14,6,4,2], [680,476,120,14,6,4,2],

[672,480,120,14,6,4,2], [630,504,120,14,6,4,2], [230580,270,122,14,6,4,2], [7320,280,122,14,6,4,2],
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(Fusun Akman and Papa A. Sissokho) MATHEMATICS DEPARTMENT, ILLINOIS STATE UNIVERSITY, NORMAL, ILLINOIS 61790, USA

Email address: `akmanf@ilstu.edu`

Email address, Corresponding author: `psissok@ilstu.edu`