

SINGULANDS slam12, slom12, slum12 of lama//lami, loma//lomi, luma//lumi up to weight s=29

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[
  SLAM12_5 = -5*x1^2*x2/12,
  SLOM12_5 = -5*x1^2*x2/12,
  SLUM12_5 = -5*x1^2*x2/12,

  SLAM12_7 = -7/24*x1^2*x2^3 - 7/24*x1^4*x2,
  SLOM12_7 = -7/24*x1^2*x2^3 - 7/24*x1^4*x2,
  SLUM12_7 = -7/24*x1^2*x2^3 - 7/24*x1^4*x2,

  SLAM12_9 = -5/18*x1^2*x2^5 - 7/36*x1^4*x2^3 - 5/18*x1^6*x2,
  SLOM12_9 = -5/18*x1^2*x2^5 - 7/36*x1^4*x2^3 - 5/18*x1^6*x2,
  SLUM12_9 = -5/18*x1^2*x2^5 - 7/36*x1^4*x2^3 - 5/18*x1^6*x2,

  SLAM12_11 = -11/8*x1^2*x2^7 + 55/24*x1^4*x2^5 - 11/6*x1^6*x2^3,
  SLOM12_11 = -11/40*x1^2*x2^7 - 11/60*x1^4*x2^5 - 11/60*x1^6*x2^3 - 11/40*x1^8*x2,
  SLUM12_11 = -11/40*x1^2*x2^7 - 11/60*x1^4*x2^5 - 11/60*x1^6*x2^3 - 11/40*x1^8*x2,

  SLAM12_13 = -91/48*x1^4*x2^7 + 65/24*x1^6*x2^5 - 91/48*x1^8*x2^3,
  SLOM12_13 = -65/252*x1^2*x2^9 - 143/504*x1^4*x2^7 - 143/504*x1^8*x2^3 - 65/252*x1^10*x2,
  SLUM12_13 = -2275/8292*x1^2*x2^9 - 1001/5528*x1^4*x2^7 - 715/4146*x1^6*x2^5 - 1001/5528*x1^8*x2^3 - 2275/8292*x1^10*x2,

  SLAM12_15 = -691/360*x1^2*x2^11 + 665/144*x1^4*x2^9 - 2233/360*x1^6*x2^7 + 209/48*x1^8*x2^5 - 21/10*x1^10*x2^3,
  SLOM12_15 = -691/2520*x1^2*x2^11 - 13/72*x1^4*x2^9 - 143/840*x1^6*x2^7 - 143/840*x1^8*x2^5 - 13/72*x1^10*x2^3 - 691/2520*x1^12*x2,
  SLUM12_15 = -691/2520*x1^2*x2^11 - 13/72*x1^4*x2^9 - 143/840*x1^6*x2^7 - 143/840*x1^8*x2^5 - 13/72*x1^10*x2^3 - 691/2520*x1^12*x2,

  SLAM12_17 = -442/15*x1^2*x2^13 + 1105/12*x1^4*x2^11 - 1666/15*x1^6*x2^9 + 187/3*x1^8*x2^7 - 153/10*x1^10*x2^5,
  SLOM12_17 = -17/60*x1^2*x2^13 - 17/144*x1^4*x2^11 - 221/720*x1^6*x2^9 - 221/720*x1^8*x2^7 - 17/144*x1^10*x2^5 - 17/60*x1^12*x2,
  SLUM12_17 = -2975/10851*x1^2*x2^13 - 11747/65106*x1^4*x2^11 - 5525/32553*x1^6*x2^9 - 2431/14468*x1^8*x2^7 - 5525/32553*x1^10*x2^5 - 11747/65106*x1^12*x2^3 - 2975/10851*x1^14*x2,

  SLAM12_19 = 2793/40*x1^2*x2^15 - 931/4*x1^4*x2^13 + 9253/30*x1^6*x2^11 - 1729/8*x1^8*x2^9 + 1729/20*x1^10*x2^7 - 209/12*x1^12*x2^5,
  SLOM12_19 = -133/440*x1^2*x2^15 - 323/660*x1^4*x2^13 - 323/660*x1^6*x2^11 - 133/440*x1^8*x2^9,
  SLUM12_19 = -481061/1754680*x1^2*x2^15 - 15827/87734*x1^4*x2^13 - 223193/1316010*x1^6*x2^11 - 29393/175468*x1^8*x2^9 - 29393/175468*x1^10*x2^7 - 223193/1316010*x1^12*x2^5 - 15827/87734*x1^14*x2^3 - 481061/1754680*x1^16*x2,

  SLAM12_21 = -108614/315*x1^2*x2^17 + 54307/48*x1^4*x2^15 - 133727/90*x1^6*x2^13 + 350603/336*x1^8*x2^11 - 163111/360*x1^10*x2^9
    + 9185/72*x1^12*x2^7 - 143/7*x1^14*x2^5,
  SLOM12_21 = -725/2772*x1^2*x2^17 - 19/72*x1^4*x2^15 - 323/924*x1^6*x2^13 - 323/924*x1^8*x2^11 - 19/72*x1^10*x2^9 - 725/2772*x1^12*x2^7,
  SLUM12_21 = -12063425/44001972*x1^2*x2^17 - 755953/4190664*x1^4*x2^15 - 88825/523833*x1^6*x2^13 - 2455123/14667324*x1^8*x2^11 - 524875/3142998*x1^10*x2^9 - 2455123/14667324*x1^12*x2^7 - 88825/523833*x1^14*x2^5 - 755953/4190664*x1^16*x2^3 - 12063425/44001972*x1^18*x2,

  SLAM12_23 = -3634759/840*x1^2*x2^19 + 2046011/144*x1^4*x2^17 - 6689573/360*x1^6*x2^15 + 4311373/336*x1^8*x2^13
    - 949003/180*x1^10*x2^11 + 46667/36*x1^12*x2^9 - 3289/21*x1^14*x2^7,
  SLOM12_23 = -28267/120120*x1^2*x2^19 - 115/264*x1^4*x2^17 + 437/1320*x1^6*x2^15 - 7429/12012*x1^8*x2^13
    - 7429/12012*x1^10*x2^11 + 437/1320*x1^12*x2^9 - 115/264*x1^14*x2^7 - 28267/120120*x1^16*x2^5,
  SLUM12_23 = -28112371/102541560*x1^2*x2^19 - 1008941/5593176*x1^4*x2^17
    - 1580629/9321960*x1^6*x2^15 - 52003/310732*x1^8*x2^13 - 5133439/30762468*x1^10*x2^11 - 5133439/30762468*x1^12*x2^9
    - 52003/310732*x1^14*x2^7 - 1580629/9321960*x1^16*x2^5 - 1008941/5593176*x1^18*x2^3 - 28112371/102541560*x1^20*x2,

  SLAM12_25 = 177203/7*x1^2*x2^21 - 1998685/24*x1^4*x2^19 + 1314599/12*x1^6*x2^17
    - 51802465/672*x1^8*x2^15 + 804661/24*x1^10*x2^13 - 464525/48*x1^12*x2^11 + 102765/56*x1^14*x2^9
    - 17875/96*x1^16*x2^7,
  SLOM12_25 = -103/546*x1^2*x2^21 - 115/156*x1^4*x2^19 + 23/26*x1^6*x2^17
    - 103/546*x1^8*x2^15 - 2185/2184*x1^10*x2^13 - 115/156*x1^12*x2^11 - 103/546*x1^14*x2^9
    - 103/546*x1^16*x2^7,
  SLUM12_25 = -388803415/14181845460*x1^2*x2^21 - 2558225761/14181845460*x1^4*x2^19 - 721392815/4254553638*x1^6*x2^17
    - 1582209629/9454563640*x1^8*x2^15 - 118306825/709092273*x1^10*x2^13 - 3547206349/21272768190*x1^12*x2^11
    - 118306825/709092273*x1^14*x2^9 - 1582209629/9454563640*x1^16*x2^7 - 721392815/4254553638*x1^18*x2^5
    - 2558225761/14181845460*x1^20*x2^3 - 388803415/14181845460*x1^22*x2,

  SLAM12_27 = -107999525/504*x1^2*x2^23 + 50755991/72*x1^4*x2^21 - 25044136/27*x1^6*x2^19 + 1317692233/2016*x1^8*x2^17
    - 20608445/72*x1^10*x2^15 + 36737051/432*x1^12*x2^13 - 9052075/504*x1^14*x2^11 + 764959/288*x1^16*x2^9
    - 12155/54*x1^18*x2^7,
  SLOM12_27 = -185/504*x1^2*x2^23 + 605/1404*x1^4*x2^21 - 161/117*x1^6*x2^19
    + 6325/6552*x1^8*x2^17 - 2185/2808*x1^10*x2^15 - 2185/2808*x1^12*x2^13 + 6325/6552*x1^14*x2^11 - 161/117*x1^16*x2^9
    + 605/1404*x1^18*x2^7,
  SLUM12_27 = -1181820455/4310763912*x1^2*x2^23
    - 4272565/23685516*x1^4*x2^21 - 4016053/23685516*x1^6*x2^19 - 55491755/331597224*x1^8*x2^17
    - 7903145/47371032*x1^10*x2^15 - 25667195/153955854*x1^12*x2^13 - 25667195/153955854*x1^14*x2^11
    - 7903145/47371032*x1^16*x2^9 - 55491755/331597224*x1^18*x2^7 - 4016053/23685516*x1^20*x2^5
    - 4272565/23685516*x1^22*x2^3 - 1181820455/4310763912*x1^24*x2,

  SLAM12_29 = -15787455/7*x1^2*x2^25 + 356120029/48*x1^4*x2^23 - 351358345/36*x1^6*x2^21 + 4617716545/672*x1^8*x2^19
    - 8998990/3*x1^10*x2^17 + 126964175/144*x1^12*x2^15 - 30302245/168*x1^14*x2^13 + 2366545/96*x1^16*x2^11 - 32045/18*x1^18*x2^9,
  SLOM12_29 = -58/119*x1^2*x2^25 + 2987/2448*x1^4*x2^23 - 1189/408*x1^6*x2^21 + 3335/1428*x1^8*x2^19 - 3335/2448*x1^10*x2^17
    - 3335/2448*x1^12*x2^15 - 1189/408*x1^14*x2^11 - 3335/1428*x1^16*x2^9 - 1189/408*x1^18*x2^7 - 3335/2448*x1^20*x2^5
    - 58/119*x1^22*x2^3,
  SLUM12_29 = -3720599805/13571120588*x1^2*x2^25
    - 34272793195/189995688232*x1^4*x2^23 - 8053785025/47498922058*x1^6*x2^21 - 4542155943/27142241176*x1^8*x2^19
    - 47546344625/284993532348*x1^10*x2^17 - 31674224531/189995688232*x1^12*x2^15 - 565532625/3392780147*x1^14*x2^13
    - 31674224531/189995688232*x1^16*x2^11 - 47546344625/284993532348*x1^18*x2^9 - 4542155943/27142241176*x1^20*x2^7
    - 8053785025/47498922058*x1^22*x2^5 - 34272793195/189995688232*x1^24*x2^3 - 3720599805/13571120588*x1^26*x2
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