Transitive Groups of Degree 14

No	Group	Order	2-Index	Molien Series
1	"C14 = 7[x]2"	14	$1 + t + 7t^2 + 26t^3 + 73t^4 + 143t^5 + 217 t^6 + 246t^7 + 217t^8 + 143t^9 + 73t^{10} + 26t^{11} + 7t^{12} + t^{13} + t^{14}$	$1 + t + 8t^2 + 40t^3 + 172t^4 + 612t^5 + 1944t^6 + 5538 t^7 + 14550t^8 + 35530t^9 + 81752 t^{10}$
2	"D_1414 = [7]2"	14	$1 + t + 10t^2 + 26t^3 + 82t^4 + 143t^5 + 232 t^6 + 246t^7 + 232t^8 + 143t^9 + 82t^{10} + 26 t^{11} + 10t^{12} + t^{13} + t^{14}$	$1 + t + 11t^2 + 40 t^3 + 184t^4 + 612 t^5 + 1980t^6 + 5538t^7 + 14640 t^8 + 35530t^9 + 81950t^{10}$
3	"D7[x]2"	28	$1 + t + 7t^2 + 16t^3 + 47t^4 + 79t^5 + 126t^6 + 133t^7 + 126t^8 + 79 t^9 + 47t^{10} + 16t^{11} + 7t^{12} + t^{13} + t^{14}$	$1 + t + 8t^2 + 24t^3 + 104t^4 + 324t^5 + 1032t^6 + 2829 t^7 + 7440t^8 + 17930t^9 + 41272 t^{10}$
4	"2[1/2]F_427"	42	$1 + t + 4t^2 + 10t^3 + 30t^4 + 49t^5 + 80t^6 + 86t^7 + 80t^8 + 49t^9 + 30t^{10} + 10t^{11} + 4 t^{12} + t^{13} + t^{14}$	$1 + t + 5t^2 + 16t^3 + 66t^4 + 210t^5 + 672t^6 + 1862t^7 + 4902t^8 + 11876 t^9 + 27362t^{10}$
5	"F_217[x]2"	42	$1 + t + 3t^2 + 10t^3 +$	$1 + t + 4t^2 + 16t^3$

			$27t^4 + 49t^5 + 75t^6$ $+86t^7 + 75t^8 + 49t^9$ $+27t^{10} + 10t^{11} + 3$ $t^{12} + t^{13} + t^{14}$	$+62t^4 + 210t^5 +$ $660t^6 + 1862t^7$ $+4872t^8 + 11876$ $t^9 + 27296t^{10}$
6	"[2^3]7"	56	$1 + t + 4t^2 + 12t^3 +$ $28t^4 + 51t^5 + 73t^6$ $+84t^7 + 73t^8 + 51t^9$ $+28t^{10} + 12t^{11} + 4$ $t^{12} + t^{13} + t^{14}$	$1 + t + 5t^2 + 20t^3$ $+70t^4 + 220t^5 +$ $634t^6 + 1696t^7$ $+4240t^8 + 10010$ $t^9 + 22440t^{10}$
7	"F_427[x]2"	84	$1 + t + 3t^2 + 6t^3 +$ $17t^4 + 27t^5 + 44t^6$ $+47t^7 + 44t^8 + 27t^9$ $+17t^{10} + 6t^{11} + 3$ $t^{12} + t^{13} + t^{14}$	$1 + t + 4t^2 + 10t^3$ $+38t^4 + 112t^5 +$ $352t^6 + 953t^7 +$ $2494t^8 + 5996t^9$ $+13784t^{10}$
8	"[7^2]2=7wr2"	98	$1 + t + 4t^2 + 8t^3 +$ $16t^4 + 23t^5 + 34t^6$ $+36t^7 + 34t^8 + 23t^9$ $+16t^{10} + 8t^{11} + 4$ $t^{12} + t^{13} + t^{14}$	$1 + t + 5t^2 + 16t^3$ $+52t^4 + 144t^5 +$ $396t^6 + 1002t^7$ $+2460t^8 + 5692$ $t^9 + 12698t^{10}$
9	"[2^4]7"	112	$1 + t + 4t^2 + 11t^3 +$ $24t^4 + 41t^5 + 57t^6$ $+64t^7 + 57t^8 + 41t^9$ $+24t^{10} + 11t^{11} + 4$ $t^{12} + t^{13} + t^{14}$	$1 + t + 5t^2 + 19t^3$ $+63t^4 + 185t^5 +$ $501t^6 + 1261t^7$ $+2993t^8 + 6743$ $t^9 + 14531t^{10}$
10	"L_714"	168	$1 + t + 2t^2 + 5t^3 + 12$ $t^4 + 17t^5 + 25t^6 +$ $30t^7 + 25t^8 + 17t^9$ $+12t^{10} + 5t^{11} + 2$ $t^{12} + t^{13} + t^{14}$	$1 + t + 3t^2 + 8t^3$ $+25t^4 + 66t^5 +$ $193t^6 + 508t^7 +$ $1291t^8 + 3076t^9$ $+6997t^{10}$

11	"[2^3]F_217"	168	$1 + t + 2t^2 + 6t^3 + 12$ $t^4 + 19t^5 + 27t^6 +$ $32t^7 + 27t^8 + 19t^9$ $+12t^{10} + 6t^{11} + 2$ $t^{12} + t^{13} + t^{14}$	$1 + t + 3t^2 + 10t^3$ $+28t^4 + 80t^5 +$ $224t^6 + 582t^7 +$ $1436t^8 + 3372t^9$ $+7526t^{10}$
12	"1/2[D7^2]2"	196	$1 + t + 4t^2 + 7t^3 +$ $14t^4 + 19t^5 + 26t^6$ $+28t^7 + 26t^8 + 19t^9$ $+14t^{10} + 7t^{11} + 4$ $t^{12} + t^{13} + t^{14}$	$1 + t + 5t^2 + 12t^3$ $+38t^4 + 90t^5 +$ $236t^6 + 561t^7 +$ $1340t^8 + 3011t^9$ $+6618t^{10}$
13	"[1/2D7^2]2"	196	$1 + t + 4t^2 + 7t^3 +$ $14t^4 + 19t^5 + 27t^6$ $+28t^7 + 27t^8 + 19t^9$ $+14t^{10} + 7t^{11} + 4$ $t^{12} + t^{13} + t^{14}$	$1 + t + 5t^2 + 12t^3$ $+38t^4 + 90t^5 +$ $240t^6 + 561t^7 +$ $1350t^8 + 3011t^9$ $+6646t^{10}$