This file describes the Borcherds products Borch(psi) that were used to help span S_4(K(110))^-. For each such psi, the list below gives information

(singularPart, phi, combo)

that describes psi and lets us confirm that psi gives rise to a suitable BP. Here singularPart is the singular part of psi, from which it can be deduced that Borch(psi) is a weight 4, level 110 Fricke minus cusp form. And phi is a theta block in J_{4,110}^cusp and is the leading Fourier Jacobi coefficient of Borch(psi), as can be seen from the singular Part of psi. And psi lies in J_{0,110}^{w.h.} and is defined by

psi = phi|V_2 / phi + combo.Weight12Basis/Delta12.

Here V_2 is an index raising operator, and combo is a vector of coefficients. The basis Weight12Basis of J_{12,N}^cusp is given following the list of psi.

Number of psi's: 3.

psi #1:(
8 + q^(-1) + z^(-6) + 3/z^5 + 4/z^4 + 3/z^3 + 3/z^2 + 6/z + 6*z + 3*z^2 + 3*z^3
 + 4*z^4 + 3*z^5 + z^6 + q*(z^(-22) + 4/z^21 + 4*z^21 + z^22) + q^2*(z^(-30)
 + z^30) + q^3*(z^(-37) + z^37) + q^4*(6/z^42 + 6*z^42) + q^5*(z^(-48) +
 4/z^47 + 4*z^47 + z^48) + q^7*(z^(-56) + z^56) + q^9*(4/z^63 + 4*z^63) +
 q^12*(z^(-73) + z^73) + q^16*(2/z^84 + 2*z^84) + q^18*(4/z^89 + 4*z^89) +
 q^25*(3/z^105 + 3*z^105) + q^26*(3/z^107 + 3*z^107) + q^27*(6/z^109 + 6*z^109))
TB(4;1,1,1,1,1,1,2,2,2,3,3,3,4,4,4,4,5,5,5,6),
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 -153586471870349968421831362710720949252718292322209762287659386465936798079753423736 9\
 028543201837725501114 01,
 -166359067330878123443338970942424100320472599248834126842323417306926325617612818798 0\
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