The allowed region of integer solutions for the exponents  $v_0$  and  $\bar{v}_0$  in the ansatz for the  $(m_1, m_2, m_3) = (m, m, 0)$  amplitudes in equation (??).  $S_3 - s_1 + m \sin(2\bar{s}_2, 2\bar{s}_2)$