Problem. Solve

$$571130 = -687x_{0}^{5}-329x_{1}^{5}+99x_{2}^{9}-654x_{3}^{4}+242x_{4}^{10}-310x_{5}^{3}-288x_{6}^{7}-647x_{7}^{5}+818x_{8}^{10}+803x_{9}^{5}+209x_{10}^{4}-822x_{11}^{7}+639x_{12}^{5}+512x_{13}^{4}+803x_{14}^{5}-231x_{15}^{2}-934x_{16}^{8}+764x_{17}^{3}-145x_{18}^{7}+731x_{19}^{8}+714x_{20}^{9}+256x_{21}^{4}+78x_{22}^{3}-753x_{23}^{2}-543x_{24}^{7}+336x_{25}^{5}-116x_{26}^{2}-925x_{27}^{9}-208x_{28}^{3}-542x_{29}^{7}-312x_{30}^{10}-30x_{31}^{7}+966x_{32}^{4}-727x_{33}^{8}-140x_{34}^{3}-875x_{35}^{6}-50x_{36}^{9}-399x_{37}^{4}+292x_{38}^{7}-905x_{39}^{7}+485x_{40}^{8}-499x_{41}^{4}-29x_{42}^{4}+816x_{43}^{3}-514x_{44}^{5}+536x_{45}^{7}+118x_{46}^{8}+379x_{47}^{8}-1018x_{48}^{8}-776x_{49}^{8}-1015x_{50}^{6}+664x_{51}^{6}+693x_{52}^{4}-393x_{53}^{9}+183x_{54}^{5}-797x_{55}^{8}+621x_{56}^{8}-168x_{57}^{8}-451x_{58}^{6}-518x_{59}^{3}-13x_{60}^{3}+42x_{61}^{7}-933x_{62}^{6}+316x_{63}^{9}-784x_{64}^{7}+693x_{65}^{4}-601x_{66}^{7}+430x_{67}^{5}-908x_{68}^{4}+724x_{69}^{8}+720x_{70}^{10}+559x_{71}^{5}+510x_{72}^{6}+465x_{73}^{9}+463x_{74}^{7}-410x_{75}^{4}-630x_{76}^{4}-397x_{77}^{8}-631x_{78}^{10}-1024x_{79}^{6}-829x_{80}^{6}-968x_{81}^{9}+247x_{82}^{10}-772x_{83}^{5}-17x_{84}^{9}+509x_{85}^{6}+336x_{86}^{5}+965x_{87}^{4}+182x_{88}^{9}+316x_{89}^{9}-145x_{90}^{7}-438x_{91}^{7}-780x_{92}^{10}+264x_{93}^{3}-132x_{94}^{2}+367x_{95}^{9}+895x_{96}^{9}+457x_{97}^{10}-15x_{98}^{2}+340x_{99}^{8}$$

Solution. Partials

- $-571130 = -(1024) - (895) + (132 * 92^2) - (1018) - (797) - (1015) + (780 * 2^{10}) + (15 * 245^2) - (367 * 2^9) - (875) - (764 * 2^3) + (803 * 3^5) - (731) - (727) - (340 * 2^8) - (654 * 5^4) - (720) + (818) + (438 * 2^7) - (457 * 2^{10}) - (968) - (965 * 2^4) - (822) - (316) - (714) - (310 * 10^3) - (329 * 3^5) + (209 * 4^4) - (925 * 2^9) - (934) - (753 * 29^2) - (803) - (288 * 3^7) + (99) + (145 * 2^7) - (687 * 3^5) - (784) + (242 * 2^{10}) - (908) - (905) - (264 * 12^3) - (647 * 2^5) - (772)$
- https://github.com/maxtuno/SAT_EQUATION/blob/master/diophantine/big_diophantine_equations.txt

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