

The following tree was considered in:

Н. М. АДРИАНОВ, А. К. ЗВОНКИН

**Взвешенные деревья с примитивными группами вращений
рёбер**

Фундамент. и прикл. матем., 18:6 (2013), 5–50

<http://mi.mathnet.ru/eng/fpm1551>

Translated as:

N. ADRIANOV AND A. ZVONKIN

Weighted trees with primitive edge rotation groups

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In this paper this tree is a part of the orbit numbered 12.8 having the size 2 (the other three is just the mirror image).

The edge rotation group of this tree is Mathieu group M_{12} .

This text was downloaded from <http://logic.pdmi.ras.ru/~yumat/personaljournal/belyifunction>

Consider the following polynomials :

$$P_0 = -1\,468\,345\,539\,509\,038\,179 - 40\,019\,310\,262\,264\,212 i \sqrt{11}$$

$$P_1 = -400\,285\,387\,498\,467\,960 - 57\,585\,137\,076\,343\,800 i \sqrt{11}$$

$$P_2 = -37\,301\,312\,488\,656\,546 - 11\,533\,512\,675\,651\,516 i \sqrt{11}$$

$$P_3 = -1\,281\,075\,422\,091\,520 - 877\,785\,440\,143\,040 i \sqrt{11}$$

$$P_4 = 779\,674\,678\,695 - 26\,721\,455\,646\,600 i \sqrt{11}$$

$$P_5 = 955\,674\,179\,856 - 75\,062\,137\,392 i \sqrt{11}$$

$$P_6 = 27\,830\,051\,700 + 13\,001\,827\,080 i \sqrt{11}$$

$$P_7 = 628\,892\,352 + 300\,009\,600 i \sqrt{11}$$

$$P_8 = -1\,003\,365 + 1\,316\,700 i \sqrt{11}$$

$$P_9 = -315\,480 - 72\,600 i \sqrt{11}$$

$$P_{10} = -3762 - 396 i \sqrt{11}$$

$$P_{11} = 0$$

$$P_{12} = 1$$

$$A(z) = \sum_{k=0}^{12} P_k z^k ;$$

$$B(z) = z + 33$$

$A[z]/B[z]$ is a Belyi function corresponding to the following tree with weighted edges

