

## Octaviation Notation

**PMX** does not provide a notation for octaviation; but native MusiX<sub>TEX</sub> does: cf. the MusiX<sub>TEX</sub> manual, Sec. 2.11 for details.

Consider, for example, bar 155 of the 2<sup>nd</sup> movement of Beethovens piana sonata op. 111 :

```

\\interstaff{13}\
w170m
Abep1
%
[ e83d ze+ e8- ze+ sl c1- zc+ sl ] c8d-1 zc+ | Rb /
[l c15x3n g+ c b1-x3n g+ b c1-x3n g+ c ]
[l gs1x3n b gs+ g1-x3n b e a1-x3n e+ a ]
[l a-1x3n e+ a g1-x3n e+ g a1-x3n e+ a ] | /
%
```

In most editions, you will find the figures in the right hand in the second and third three beats written in octaviation notation:

which is clearly easier to read. This octaviated version was produced by the following **PMX** code:

```

\\interstaff{13}\
w170m
Abep1
\\def\octnumber{8$^{va}$}\
%
[ e83d ze+ e8- ze+ sfu c1- zc+ sfu ] c8d-1 zc+          | Rb /
[l c15x3n g+ c b1-x3n g+ b c1-x3n g+ c ]
\Ioctfinup1d\ [l g-s1x3n b gs+ g1-x3n b e a1-x3n e+ a ]
[l a-1x3n e+ a g1-x3n e+ g a1-x3n e+ a ] \toctfin1\    |    /
%
```

The octaviation is started with the Type 1 inline  $\text{T}_{\text{E}}\text{X}$  symbol `\Ioctfinup1d\` and ended with `\toctfin1\`; the transposition downward is, of course, generated in the standard **PMX** way by writing `g-s1x3n` instead of `gs1x3n`. By default, MusiX<sub>TEX</sub> will start the octaviation symbol with a simple 8; this is changed to 8<sup>va</sup> by the Type 2 inline  $\text{T}_{\text{E}}\text{X}$  symbol given in the preamble.

**Note:** When using this octaviation notation in a score, do not try to produce a MIDI file for that score: it will come out faulty.