



CHINA NATIONAL  
MUSIC THEATER

Chinese Traditional Musical  
Instrument Orchestra

Visualization  
of emotion  
in Chinese  
traditional music

# 紫竹调

ZI ZHU  
DIAO





# ZI ZHU DIAO

*Zi Zhu Diao* is a traditional minor song widely spread in Jiangnan area. Its source can be traced back to the traditional song of Chunqiu period and Warring States period. After being sung and modified by artists of all ages, zizhudiao all over the country has its own local characteristics, and has its own characteristics in syllable processing.

Avg. Valence  
-0.303

Avg. Melancholic  
0.216

Avg. Dark  
0.722

Avg.Calm  
0.186

Avg.Tense  
0.747

Avg.Arousal  
0.266

Emotion Value

**Tense:  
Very Low  
0.193**

According to the spectral moment center equation, we can decompose the image or sound into different spectrum concepts.

The frequency of the curve shaped spectrum is lower than that of the peak shaped spectrum, and the nervous mood shape presents the inverted V-shape, which expresses an inward tense mood, with a sharper and sharper contour.

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# Brochure Guide

When you open the brochure in 360°, you can catch sight of a blooming peony from the top view. You may have discovered that each part of this flower is not in a balance, this is because each part is a visualization of different emotions, and the composition of the song's emotions is always full of difference.

Emotion Value

**Calm: Mid**

**0.573**

Calm emotions convey a positive meaning, the ups and downs of the emotional curve are smaller, and the emotional shape is more complete and full.

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# Visualization Principle

We used the petals of peony flowers to visualize the mood of the song. Different petal shapes correspond to different emotions. The size of petals correspond to the value of emotions.

And the color of petals corresponds to different songs. We also used the stems and leaves of peony flowers to visualize the Valence and Arousal values.

Emotion Value

**Melancholic:**  
**Very high**  
**0.549**

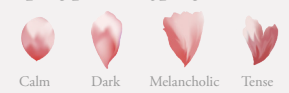
To a certain extent, melancholic mood has the dual meaning of negative and vigilance, and its shape is similar to the inverted triangle with sharp edge to show the fusion of negative emotions.

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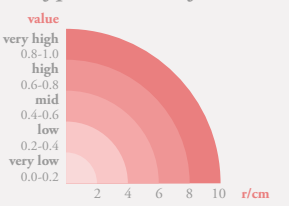
# Visualization

## Standard

*shape of petals = type of Emotions*



*size of petals = value of Emotions*



*color of leaves = value of Valence*



*complexity of leaves = value of Arousal*





Emotion Value

**Dark: Mid**

**0.557**

Dark, as a mixture of negative emotions, presents a complete and full emotional shape, but the overall trend is downward and concave to the interior.

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