

Catalysis

for Di, Zheng, Ruan and String Quartet (2020)

為中國笛、阮、箏及絃樂四重奏

Ling-Hsuan Huang

黃苓瑄

Instrumentation

Di (Xindi (F), Xindi (B_♭), Qinxiao (D) and Nanxiao (D))

Zheng (21 strings nylon Zheng)

Ruan (Bass '*daruan*')

Violin 1

Violin 2

Viola

Violoncello

Duration: ca. 11:30 min.

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Performance Notes

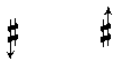
General



somewhat higher/lower than \natural (no more than a quarter-tone)



somewhat higher/lower than \flat (no more than a quarter-tone)



somewhat little higher/lower than \sharp (no more than a quarter-tone)

"f" ***"ppp"***

Dynamic: Indications in quotation marks refer to the intensity of the performance manner and not to the resulting absolute volume of the actions.



transition from one instruction to another

ord.

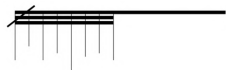
ordinario

l.v.

let vibrate



mute strings with hand unless otherwise indicated



quick passage with unspecified pitches. The length of the passage indicates with the beam extension.

All tremoli should be played as fast as possible unless otherwise indicated.

Di



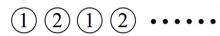
air noisy with the audible pitch



50% tone and 50% Air

bisb.

bisbigliando/ Timbral trill: played through a multitude of additional fingerings.
Certain types of bisbigliando will be indicated (虚颤, 半泛音...).



bisbigliando alternating with two fingerings

Flz.



flutter tongue (花舌)



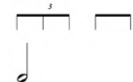
half harmonics (半泛音)

Over-
blowing



overblowing with/without particular pitch of overtone

(vib.)



rhythmic air vibrato



note head with vowels/consonant attacks: playing with the notated vowels or consonants without singing or speaking
(consonants: always very hard accents).

Zheng

Performance Requirements: kneaded eraser (Knetgummi) and 3 metal clips.

Written Score

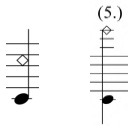
Scordatura / Preparation:

The image displays a musical score for the Zheng instrument, illustrating the scordatura (preparation) process. It consists of two staves: 'Written Score' and 'Sounding pitch'.

Written Score: The top staff shows a sequence of notes. A bracket indicates a section where the notes are played 'with kneaded eraser (left side of the bridge)'. The notes are: G4, A4, B4, C5, D5, E5, F5, G5, A5, B5, C6, D6, E6, F6, G6, A6, B6, C7, D7, E7, F7, G7, A7, B7, C8, D8, E8, F8, G8, A8, B8, C9, D9, E9, F9, G9, A9, B9, C10, D10, E10, F10, G10, A10, B10, C11, D11, E11, F11, G11, A11, B11, C12, D12, E12, F12, G12, A12, B12, C13, D13, E13, F13, G13, A13, B13, C14, D14, E14, F14, G14, A14, B14, C15, D15, E15, F15, G15, A15, B15, C16, D16, E16, F16, G16, A16, B16, C17, D17, E17, F17, G17, A17, B17, C18, D18, E18, F18, G18, A18, B18, C19, D19, E19, F19, G19, A19, B19, C20, D20, E20, F20, G20, A20, B20, C21, D21, E21, F21, G21, A21, B21, C22, D22, E22, F22, G22, A22, B22, C23, D23, E23, F23, G23, A23, B23, C24, D24, E24, F24, G24, A24, B24, C25, D25, E25, F25, G25, A25, B25, C26, D26, E26, F26, G26, A26, B26, C27, D27, E27, F27, G27, A27, B27, C28, D28, E28, F28, G28, A28, B28, C29, D29, E29, F29, G29, A29, B29, C30, D30, E30, F30, G30, A30, B30, C31, D31, E31, F31, G31, A31, B31, C32, D32, E32, F32, G32, A32, B32, C33, D33, E33, F33, G33, 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G329, A329, B329, C330, D330, E330, F330, G330, A330, B330, C331, D331, E331, F331, G331, A331, B331, C332, D332, E332, F332, G332, A332, B332, C333, D333, E333, F333, G333, A333, B333, C334, D334, E334, F334, G334, A334, B334, C335, D335, E335, F335, G335, A335, B335, C336, D336, E336, F336, G336, A336, B336, C337, D337, E337, F337, G337, A337, B337, C338, D338, E338, F338, G338, A338, B338, C339, D339, E339, F339, G339, A339, B339, C340, D340, E340, F340, G340, A340, B340, C341, D341, E341, F341, G341, A341, B341, C342, D342, E342, F342, G342, A342, B342, C343, D343, E343, F343, G343, A343, B343, C344, D344, E344, F344, G344, A344, B344, C345, D345, E345, F345, G345, A345, B345, C346, D346, E346, F346, G346, A346, B346, C347, D347, E347, F347, G347, A347, B347, C348, D348, E348, F348, G348, A348, B348, C349, D349, E349, F349, G349, A349, B349, C350, D350, E350, F350, G350, A350, B350, C351, D351, E351, F351, G351, A351, B351, C352, D352, E352, F352, G352, A352, B352, C353, D353, E353, F353, G353, A353, B353, C354, D354, E354, F354, G354, A354, B354, C355, D355, E355, F355, G355, A355, B355, C356, D356, E356, F356, G356, A356, B356, C357, D357, E357, F357, G357, A357, B357, C358, D358, E358, F358, G358, A358, B358, C359, D359, E359, F359, G359, A359, B359, C360, D360, E360, F360, G360, A360, B360, C361, D361, E361, F361, G361, A361, B361, C362, D362, E362, F362, G362, A362, B362, C363, D363, E363, F363, G363, A363, B363, C364, D364, E364, F364, G364, A364, B364, C365, D365, E365, F365, G365, A365, B365, C366, D366, E366, F366, G366, A366, B366, C367, D367, E367, F367, G367, A367, B367, C368, D368, E368, F368, G368, A368, B368, C369, D369



rapid string gliss. with uncertain end (掃弦)



harmonics / flageolet tones (The number indicates the partials.)



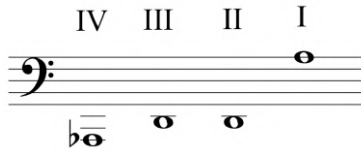
bend strings to the indicated pitch before plucking the string (直接音)



half harmonics (半泛音)

Ruan

Scordatura:



corpus

play on corpus (sounding board)



play the twisted two strings (絞弦)



strike strings with palm (手掌拍弦)



Bartók pizzicato



(磨弦)



harmonics / flageolet tones

guiro gliss. on the frets



Guiro on the frets (刮品)



No movement after muting action until the end of the bracket indication

Strings

Performance Requirements: rasping stick 1 (**Vln.1**), rasping stick 2 (**Vc.**), Patafix or kneaded eraser (**Vln.1, Vln.2, Vla., Vc.**).

Attention: The stripes of rasping stick 1 should be denser than rasping stick 2.

PSP	poco sul ponticello
MSP	molto sul ponticello
PST	poco sul tasto
MST	molto sul tasto
flaut.	flautando
flag.	flageolet tones
Jeté	saltando
c.l.b.	col legno battuto
1/2 c.l.	play with 50% hair and 50% wood of the bow
crini	con crini; draw the bow hair across the string



bow pressure higher than normal

non-specific tone, pitch as high as possible

half harmonics: finger pressure between ordinary and flageolet tones.

horizontal bowing

A bowing technique to create less audible sound and more scratchy tone by moving the bow is on a horizontal motion to the string (with less bow pressure), as shown in the diagram:



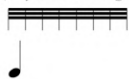
bowing with rasping stick on Corpus

slow bowing speed



Play with rasping stick on corpus to make guiro effect

("rhythmic" bowing speed of rasping stick)





With rasping stick: control the guiro rhythm by bowing speed while playing

Bar 146: position of attached Patafix or kneaded eraser (Knetgummi) on the strings:
(The strings should resonate. Do not mute the strings completely.)




Bar 167-192 (Vln.1, Vln.2, and Vla.):

Vln.1, Vln.2 and Vla. should play on the indicated sections of Zheng respectively with their bow as following figure:

Section (Vln. 2)	sul middle		sul Yuesan	
-------------------------	------------	-------------------------------------------------------------------------------------	------------	--------------------------------------------------------------------------------------

Section (Vla. 1)	sul middle		sul Yuesan	
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The notation  indicates unspecific cluster on the strings of the Zheng. Each cluster could be different strings combination.

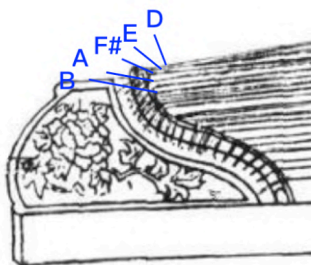
The “sul Yuesan” means close to the frets (both sides); the “sul middle” means the position between the frets and the bridge.

For the pitch notation in bar 179-192, the following figures indicates the strings on the Zheng (The sound pitch is different from the written pitch!)

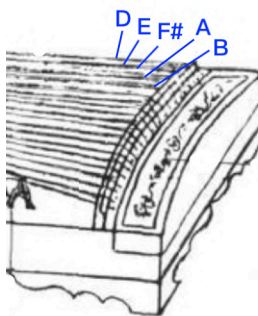


(the lowest 5 strings on Zheng)

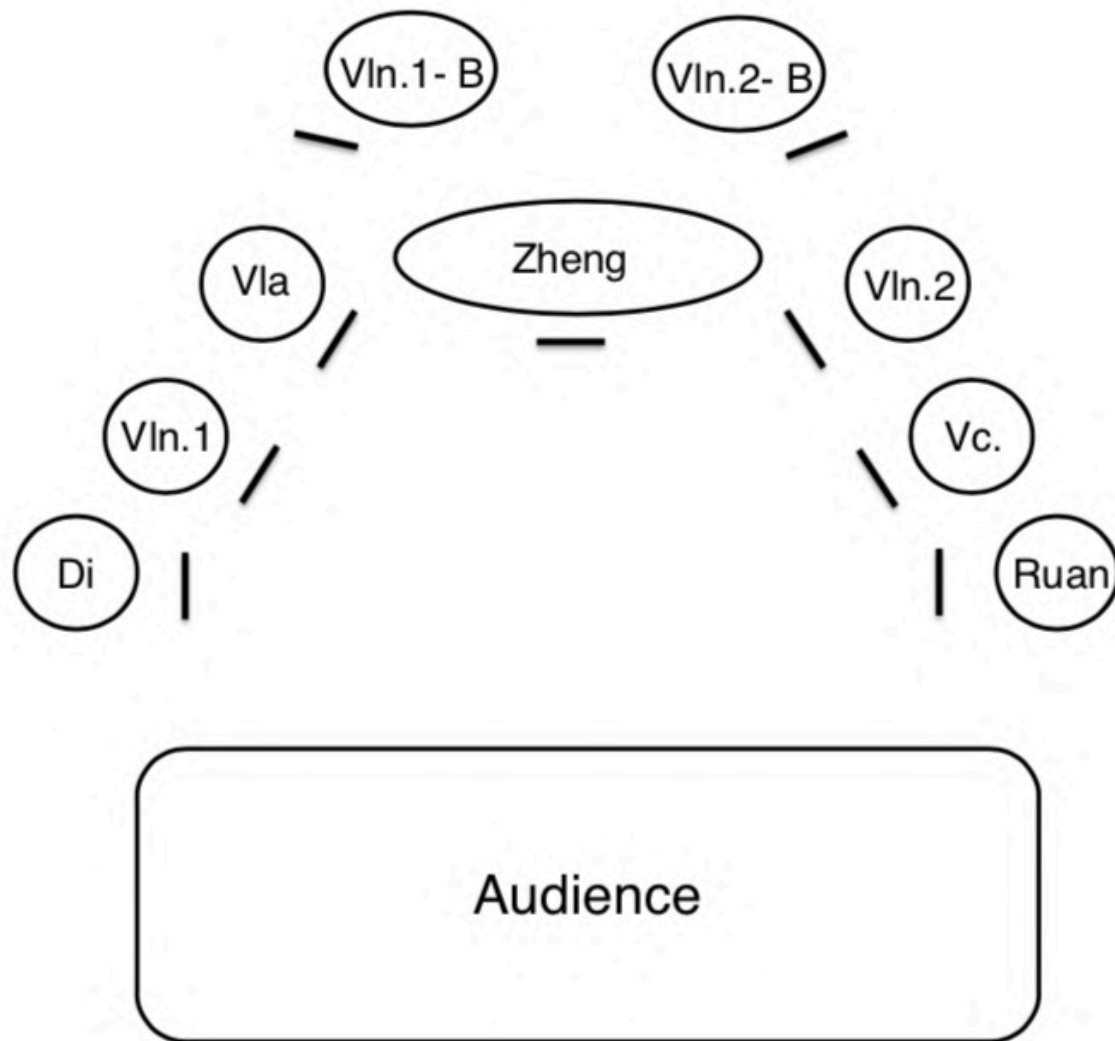
for Section A (Vln.2):



for Section B (Vln.1):



Stage plan



Catalysis

For Di, Zheng, Ruan and String Quartet (2020)

Ling-Hsuan Huang

The musical score is written for Di (Xindi F), Zheng, Ruan, and String Quartet. The tempo is marked as $\text{♩} = 70$. The score is in 4/4 time and features a variety of musical notations and performance instructions.

Di (Xindi F): The part begins with a $\text{tk tk} \dots$ pattern, followed by a $\text{tz tz tz tz s s s s s}$ pattern. Dynamics range from *ppp* to *mp* and *sfp*. A circled cross symbol is used above the staff.

Zheng: The part includes a circled cross symbol and the instruction "手掌搞弦" (palm strumming). Dynamics range from *ppp* to *p*. A circled cross symbol is used above the staff.

Ruan: The part includes a circled cross symbol and the instruction "悶音" (muted sound). Dynamics range from *ppp* to *p*. A circled cross symbol is used above the staff.

String Quartet: The parts for Violin I, Violin II, Viola, and Cello are shown. The Violin II and Viola parts include a circled cross symbol and the instruction "with Plectrum". The Viola part also includes the instruction "I c.l.b.". Dynamics range from *p* to *ppp*. A circled cross symbol is used above the staff.

Performance Instructions:

- all strings fully muted with left hand
- I click the string with plectrum
- I c.l.b.