

12 VALENCE

TOUR

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Moderato

Bm G A E Bm G Em⁷ A D

QUARK

ЛЕПТОН

STUDENTS

It's_ high - er__ e - ner - gy__ le - vel__ It's_ high - er__ e - ner - gy__ le - vel__

This_ high - er__ ed - u - cat - ion__ haul. This_ high - er__ ed - u - cat - ion__ haul.

Vibraphone

Bm G A E Bm G Em⁷ A D

Guitar

Bm G A E Bm G Em⁷ A D

5

QUARK

Bm G A⁵ E Bm G Em⁷ A D

Os - cil - lat - ions doc! Alt - nat - ing cur - rents?

JEHTOH

STUDENTS

It's_ high - er_ e - ner - gy__ le - vel__ It's_ high - er__ e - ner - gy__ le - vel__

This_ high - er__ ed u - cat - ion__ haul. This_ high - er__ ed - u - cat - ion__ haul.

Vibraphone

Bm G A⁵ E Bm G Em⁷ A D

Guitar

Bm G A⁵ E Bm G Em⁷ A D

Diagrammatic guitar chords are shown for Bm, G, A⁵, E, Bm, G, Em⁷, A, and D.

QUARK

9 G F#7 Bm Bm(add9) F#m7 Bm Bm(add9)

Spe - cial states to - day? An - y phe - no - me - na?

ЖЕНТОХ

STUDENTS

It's_ high - er__ e - ner - gy__ le vel__ It's_ high - er__ e - ner - gy__ le - vel__

This_ high - er__ ed u - cat - ion__ haul. This_ high - er__ ed - u - cat - ion__ haul.

Vibraphone

G F#7 Bm Bm(add9) F#m7 Bm Bm(add9)

Guitar

G F#7 Bm Bm(add9) F#m7 Bm Bm(add9)

13 Bm F#m G A Bm A⁶ G A⁵ Em

QUARK

JENTOH

A - - larm in - fre - quen. See to in - te -

STUDENTS

This_ e - miss - ion_ leads_ to_ ground state. Who_ is_ this_ ed - u - cat - ed_ spoil?

That_ ad- miss - ion_ leaves ya_ ground-ed._ What_ a_ low e - ner - gy_ le - vel._

Vibraphone

Guitar

17 D⁵ F[♯]m D A Bm F[♯]m G A⁵/B Em/B

QUARK

JENTOH

grat - ion. D'rive on. Pos - tu - late.

STUDENTS

Who is___ this___ ed - u - cat - ed___ spoil? Who___ is___ this___ ed - u - cat - ed___ spoil?

What_ a low___ e - ner - gy___ le - vel._ What_ a low___ e - ner - gy___ le - vel._

D⁵ F[♯]m D A Bm F[♯]m G A⁵/B Em/B

Vibraphone

D⁵ F[♯]m D A Bm F[♯]m G A⁵/B Em/B

Guitar

21 D⁵ F^{#m} D A Bm A⁶ G A Bm

QUARK

Check va - li - di - ty.

JENTOH

A pos. Think sphere.

STUDENTS

Who_ is_ this_ ed - u - cat - ed spoil? Jump_ up_ those_ e - ner - gy_ le - vels!_

What_ a low_ e ner - gy_ le - vel._ Bump_ out_ some_ end - less_ cre - den - tials!

Vibraphone

D⁵ F^{#m} D A Bm A⁶ G A Bm

Guitar

D⁵ F^{#m} D A Bm A⁶ G A Bm

25 Fm C# D# A# Fm C# A#m7 D# G# 7

QUARK

As - sume my mo - tive. First or - der not - ed.

JENTON

STUDENTS

Mo - ti - vat - ion.. Make as - sumpt - ions. Nat-u - ral e - qua - tions. Di - rect no - tat - ions.

STUDENTS

Mo - ti - vat - ion.. Make as - sumpt - ions. Nat-u - ral e - qua - tions. Di - rect no - tat - ions.

Vibraphone

Guitar

29 C# C7 Fm Fm(add9) Cm7 Fm Fm(add9)

QUARK

Fresh scho-lars un- veiled. Sur- veil-lance. Serve va-lence.

JENTOH

STUDENTS

Ge- ner- at- ions. In- for- mat- ion. Ob- ser- vat- ion. Shelled e- lec- trons!

Ge- ner- at- ions. In- for- mat- ion. Ob- ser- vat- ion. Shelled e- lec- trons!

C# C7 Fm Fm(add9) Cm7 Fm Fm(add9)

Vibraphone

C# C7 Fm Fm(add9) Cm7 Fm Fm(add9)

Guitar

33 Gm F⁶ D[#] F⁵ Cm A^{#5} Dm A[#] F

QUARK

JENTON

Teach - - - ing as - sis - tant. These stu - - -

STUDENTS

We___ have_ an___ im - por - tant_ quest - ion._ We___ have_ an___ im - por - tant_ quest-ion._

We___ have_ an___ im - por - tant_ quest - ion._ We___ have_ an___ im - por - tant_ quest-ion._

Gm F⁶ D[#] F⁵ Cm A^{#5} Dm A[#] F

Vibraphone

Gm F⁶ D[#] F⁵ Cm A^{#5} Dm A[#] F

Guitar

37 Gm Dm D# F⁵ Cm A^{#5} Dm A# F

QUARK

JENTOH

dents suck e - ner - gy out of you.

STUDENTS

We have an im - por - tant quest - ion. We have an im - por - tant quest - ion.

We have an im - por - tant quest - ion. We have an im - por - tant quest - ion.

Gm Dm D# F⁵ Cm A^{#5} Dm A# F

Vibraphone

Gm Dm D# F⁵ Cm A^{#5} Dm A# F

Guitar

41 Bm A⁶ G A Bm Fm C# D# A#

QUARK State, I'm fa - mi - liar. Con - vect - ion, it's chill.

JEPTON

STUDENTS This might be a stu - pid quest - ion. Gee Pro - fes - sor Леп - тон Леп - тон..

This might be a stu - pid quest - ion. Quark. Quark.

Bm A⁶ G A Bm Fm C# D# A#

Vibraphone

Bm A⁶ G A Bm Fm C# D# A#

Guitar

45 Fm C# A#m7 D# G# C# C7 Fm Fm(add9)

QUARK

Op - ti - cal, looks good. Ba - sic - ly, I'm hip.

ЛЕПТОН

Gee Pro - fes - sor Леп - тон Леп - тон. Gee Pro - fes - sor Леп - тон Леп - тон.

STUDENTS

Quark. Quark. Quark. Quark.

Vibraphone

Fm C# A#m7 D# G# C# C7 Fm Fm(add9)

Guitar

QUARK

49 Cm⁷ Fm Fm^(add9) Bm F# Bm F#

I'll ad - dress all quest - ions!

ЛЕНТОН

So fail - ing. Ask if

STUDENTS

Gee Pro - fes - sor Леп - тон Леп - тон. Thank you, Quark E! Thank you, Quark E!

Quark. Quark. No thanks to you, Леп - тон Леп - тон.

Vibraphone

Cm⁷ Fm Fm^(add9) Bm F# Bm F#

Guitar

Cm⁷ Fm Fm^(add9) Bm F# Bm F#

53 Bm F# Gm Gm/A Bm F# Bm F#

QUARK

JEHTOH

quest-ions 'rise brief - - - ly then you snub. No

STUDENTS

Thank you, _ Quark E! _ Thank you, _ Quark E! _ Thank you, Quark E! _ Thank you, _ Quark E! _

No _ thanks to _ you, _ Леп - тон _ Леп - тон _ No _ thanks to _ you, _ Леп - тон _ Леп - тон _

Vibraphone

Bm F# Gm Gm/A Bm F# Bm F#

Guitar

Bm F# Gm Gm/A Bm F# Bm F#

57 Bm F# Gm Gm/A Am Bm Am E7 Am Bm Am E7 15

QUARK

JENNON

ATOM

STUDENTS

Vibraphone

Guitar

need va - li - dat - - ion.

Steal 'lec-tri-ci - ty. I'll sur-veil here. High-er le-

Thank you, Quark E! Thank you, Quark E! Ex - act - ly what is spin?

No thanks to you, Леп - тон Леп - тон. Ex - act - ly what is spin?

62 Am E7 Am Bm Am E7 Am

QUARK Spin is an odd mag - net - ic pro - pert-y en-com-pass-ing quan-tum

ПЕПТОН

ATOM vel. How's that go - ing? You can't spin this. You can't spin

STUDENTS Quark E? Ex - - - - act - - - ly what

Vibraphone Am E7 Am Bm Am E7 Am

Guitar Am E7 Am Bm Am E7 Am

65

Bm

Am

E7

Am

E7

17

QUARK

'lec-tro-mag - ne - ti - sm theo - Real ly, we should 'dress the mat - ter here.

JEPITO

ATOM

this. You can't spin this. You can't spin

STUDENTS

is spin? T A?

is spin? T A?

Vibraphone

Bm

Am

E7

Am

E7

Guitar

Bm

Am

E7

Am

E7

67 Am Bm Am E7 Am B7 D E7

QUARK I need toei-gen-state the up-down obser va- ble. You're al - ways in my space?

ПЕПТОН

ATOM this. You can't spin this. You can't spin this. Need to men- tion, you can't spin

STUDENTS Ex - - act - ly what is spin? Teach - er?

Vibraphone Am Bm Am E7 Am B7 D E7

Guitar Am Bm Am E7 Am B7 D E7

71

QUARK

Am Bm Am E7 Am

Space-time fa-bri-cat-ion brings a - bout li - mi - tat-ions, so let's

ПЕРТОН

ATOM

us. You can't spin us. You can't spin us. You can't spin us. You can't spin

STUDENTS

What do you have in core for us?

Vibraphone

Am Bm Am E7 Am

Guitar

Am Bm Am E7 Am

The musical score is arranged in a system with six staves. The top staff, labeled 'QUARK', is in treble clef and contains a melody with lyrics 'Space-time fa-bri-cat-ion brings a - bout li - mi - tat-ions, so let's'. Above this staff are five chords: Am, Bm, Am, E7, and Am. The second staff, labeled 'ПЕРТОН', is in treble clef and contains a whole rest. The third staff, labeled 'ATOM', is in treble clef and contains a melody with lyrics 'us. You can't spin us. You can't spin us. You can't spin us. You can't spin'. The fourth staff, labeled 'STUDENTS', is in treble clef and contains a melody with lyrics 'What do you have in core for us?'. The fifth staff, labeled 'Vibraphone', is in treble clef and contains a whole rest. The sixth staff, labeled 'Guitar', is in treble clef and contains a whole rest. Above the guitar staff are five chord diagrams: Am, Bm, Am, E7, and Am.

73

QUARK

move to state for - mat - ion, mixed va - lence with-in fem - to - se - conds, hear

ЧЕРТОХ

ATOM

us. You can't spin us. You can't spin us. You can't spin us. You can't spin

STUDENTS

What do you have in ac - cord - ance?

What do you have in ac - cord - ance?

Vibraphone

Guitar

Bm Am E⁷ Am E⁷

Bm Am E⁷ Am E⁷

The musical score is written for a six-part ensemble. The parts are: QUARK (soprano), ЧЕРТОХ (alto), ATOM (tenor), STUDENTS (two voices, soprano and bass), Vibraphone, and Guitar. The score is in 4/4 time and features a mix of vocal lines and instrumental accompaniment. The key signature has two flats (B-flat and E-flat). The guitar part includes chord diagrams for Bm, Am, and E7.

75 Am Bm Am E7 Am

QUARK all that you qua-si-bo-rons? An e - xa - mi - nat - ion filled

ПЕПТОН

ATOM us. You can't spin us. You can't spin us. You can't spin us. You can't spin

STUDENTS What do you have that'll shock our core?

Vibraphone

Guitar Am Bm Am E7 Am

77

QUARK

with holes in scan - trons.

ЧЕРНОТ

ATOM

us. You can't spin us. You can't spin us. In theor - y though, Please share with

STUDENTS

What do you ex - pect from nu - clei?

Vibraphone

B⁷ D E⁷

Guitar

B⁷ D E⁷

The musical score is written for a page numbered 22. It features six staves. The first staff is for 'QUARK' and contains the lyrics 'with holes in scan - trons.' with a treble clef and a key signature of one sharp (F#). Above the staff are chord symbols B⁷, D, and E⁷. The second staff is for 'ЧЕРНОТ' and is empty. The third staff is for 'ATOM' and contains the lyrics 'us. You can't spin us. You can't spin us. In theor - y though, Please share with'. The fourth and fifth staves are for 'STUDENTS' and contain the lyrics 'What do you ex - pect from nu - clei?'. The fourth staff has a treble clef and the fifth staff has a bass clef. The sixth staff is for 'Vibraphone' and is empty, with chord symbols B⁷, D, and E⁷ above it. The seventh staff is for 'Guitar' and is empty, with chord symbols B⁷, D, and E⁷ above it. The score is divided into two systems by a vertical line. The first system contains the first four staves, and the second system contains the last three staves.

79 Am Bm Am E7 Am

QUARK

Think of in-side-out-side your mat-ters, you'll fi-gure out your charge

ЖЕНТОН

ATOM

us. Please share with us. Please share with

STUDENTS

Will this mo-ment

Vibraphone

Am Bm Am E7 Am

Guitar

Am Bm Am E7 Am

81

QUARK

and your con - fi - gu - rat - ion. There's some - thing to be - ing no - ble, guess.

ПЕПТОН

ATOM

us. Please share with us. Please share with

STUDENTS

be curved? Fail - - - ure?

Vibraphone

Bm Am E7 Am E7

Guitar

Bm Am E7 Am E7

83 Am Bm Am E7 Am

QUARK I'll stop with sur - veil - lance when this bas - ic u - nit just quits

JEPTON

ATOM us. Please share with us. Please share with

STUDENTS

Will this mo - - ment

Vibraphone Am Bm Am E7 Am

Guitar Am Bm Am E7 Am

85

B⁷ D E⁷ Bm G A E

QUARK

tak - ing e - ner - gy!

ЖЕНТОХ

us. Please share with us. I serve va - lence. E - ner - gies for

be curved? Va - lence? Con tri - but - ion. Con tri - but - ion.

STUDENTS

be curved? Va - lence? Con tri - but - ion. Con tri - but - ion.

Vibraphone

B⁷ D E⁷ Bm G A E

Guitar

B⁷ D E⁷ Bm G A E

The musical score is written for a page numbered 26. It features five staves. The first staff is for the vocal part 'QUARK', with lyrics 'tak - ing e - ner - gy!'. The second staff is for 'ЖЕНТОХ' (Zhentokh), which is currently empty. The third staff is for 'ATOM', with lyrics 'us. Please share with us. I serve va - lence. E - ner - gies for'. The fourth and fifth staves are for 'STUDENTS', with lyrics 'be curved? Va - lence? Con tri - but - ion. Con tri - but - ion.'. The sixth staff is for 'Vibraphone', and the seventh is for 'Guitar'. Above the first staff, the chords B⁷, D, E⁷, Bm, G, A, and E are indicated. Above the sixth staff, the same sequence of chords is shown. The guitar part includes chord diagrams for B⁷, D, E⁷, Bm, G, A, and E. The 'STUDENTS' part includes triplets in the melody. The 'QUARK' part has a single note followed by a rest.

89

Bm

G

G⁶

A

D

G

F[#]7

27

QUARK

ЖЕПТОН

ATOM

the va - lence! If you are high - er

STUDENTS

Con - tri - but - ion. Con - tri - but - ion. Con - tri - but - ion.

Con - tri - but - ion. Con - tri - but - ion. Con - tri - but - ion.

Vibraphone

Guitar

92 Bm Bm(add9) F#m7 Bm Bm(add9)

QUARK

ПЕПТОН

ATOM

le - - vel though fail - ure, they can too!

STUDENTS

Con- tri - but - ion. Con - tri - but - ion. Con - tri - but - ion.

Con - tri - but - ion. Con - tri - but - ion. Con - tri - but - ion.

Vibraphone

Bm Bm(add9) F#m7 Bm Bm(add9)

Guitar

Bm Bm(add9) F#m7 Bm Bm(add9)

95 Bm A⁶ G A Bm Am F G D

QUARK

ЯЕНТОН

They'll get e - lec - trons. They'll group the el - ments.

ATOM

STUDENTS

Dis - tri - but - ion of the scan - trons. Nodes, or - bit - als. Nodes, or - bit - als.

Dis - tri - but - ion of the scan - trons. Neu - tral cir - cles. Neu - tral cir - cles.

Vibraphone

Bm A⁶ G A Bm Am F G D

Guitar

Bm A⁶ G A Bm Am F G D

99 Am F Dm⁷ G C F E⁷ Am Am(add9)

QUARK

ЯЕПТОН

They'll con - fig - u - rate. They'll come out their shells.

ATOM

STUDENTS

Nodes, or - bit - als. Nodes, or - bit - als. Nodes, or - bit - als. Nodes, or - bit - als.

Neu - tral cir - cles. Neu - tral cir - cles. Neu - tral cir cles. Neu - tral cir - cles.

Vibraphone

Guitar

Am F Dm⁷ G C F E⁷ Am Am(add9)

103 Em⁷ Am Am(add9) Gm F⁶ D[#] F⁵ Cm

QUARK

ЯЕПТОН

They'll find out their va - lence. Quark, as - sist - ant,

ATOM

STUDENTS

Nodes, or - bit - als. Nodes, or bit - als. Mo - ti - vat - ion. Make as - sump - tions.

Neu - tral cir - cles. Neu - tral cir - cles. Mo - ti - vat - ion. Make as - sump - tions.

Vibraphone

Guitar

Em⁷ Am Am(add9) Gm F⁶ D[#] F⁵ Cm

107 A^{#5} Dm A[#] F Gm F⁶ D[#] F⁵ Cm

QUARK

ЖЕНТОХ

you'll not fail. Quark, as - sur - ance,

ATOM

STUDENTS

Nat-u - ral__ e - qua - tions. Di - rect_no - tat - ions. Ge - ne - rat - ions. In - form - at - ion._

Nat-u - ral__ e - qua - tions. Di - rect_no - tat - ions. Ge - ne - rat - ions. In - form at - ion._

Vibraphone

A^{#5} Dm A[#] F Gm F⁶ D[#] F⁵ Cm

Guitar

A^{#5} Dm A[#] F Gm F⁶ D[#] F⁵ Cm

111 A^{#5} Dm A[#] F Bm F[#] Bm F[#]

QUARK

JEПTOH

you need no val. Don't take it. Wrong e -

ATOM

Ob - ser - vat - ion._ Shelled e - lec - trons! Va lence e-lec-trons. Va - lence e-lec-trons.

STUDENTS

Ob - ser - vat - ion._ Shelled e - lec - trons! Va - li - dat - ion._ Va - li - dat - ion._

Vibraphone

A^{#5} Dm A[#] F Bm F[#] Bm F[#]

A^{#5} Dm A[#] F Bm F[#] Bm F[#]

Guitar

The musical score is arranged in a system with six staves. The top staff, labeled 'QUARK', contains a series of whole rests. The second staff, labeled 'JEПTOH', contains a melody with lyrics: 'you need no val. Don't take it. Wrong e -'. The third staff, labeled 'ATOM', contains a series of whole rests. The fourth staff, labeled 'STUDENTS', contains a melody with lyrics: 'Ob - ser - vat - ion._ Shelled e - lec - trons! Va lence e-lec-trons. Va - lence e-lec-trons.' The fifth staff, labeled 'STUDENTS', contains a melody with lyrics: 'Ob - ser - vat - ion._ Shelled e - lec - trons! Va - li - dat - ion._ Va - li - dat - ion._'. The sixth staff, labeled 'Vibraphone', contains a melody with lyrics: 'A^{#5} Dm A[#] F Bm F[#] Bm F[#]'. The seventh staff, labeled 'Guitar', contains a series of whole rests and guitar chord diagrams for A^{#5}, Dm, A[#], F, Bm, F[#], Bm, and F[#].

115 Bm F# Gm Gm/A Bm F# Bm F#

QUARK

ЯЕПТОН

ner - gy le - vel. ____ Va - li - di - ty. There's

ATOM

STUDENTS

Va - lence e-lec-trons. Va - lence e-lec-trons. Va - lence e-lec-trons. Va - lence e-lec-trons.

Va - li - dat - ion. _ Va - li - dat - ion. _ Va - li - dat - ion. _ Va - li - dat - ion. _

Vibraphone

Bm F# Gm Gm/A Bm F# Bm F#

Guitar

Bm F# Gm Gm/A Bm F# Bm F#

119

Bm

F#

Gm

Gm/A

Bm

F#

Bm

F#

35

QUARK

ЖЕНТОН

ATOM

STUDENTS

Vibraphone

Guitar

36

123 Bm F# Gm Gm/A Bm F#

QUARK

JEHTOH

of phy - sics pumps_____ va - li - di - ty.

ATOM

STUDENTS

Va - lence e - lec - trons. Va - lence_ e - lec - trons. Va - lence_ e - lec - trons.

Va - li - dat - ion. Va - li - dat - ion. Va - li - dat - ion.

Vibraphone

Guitar

The musical score is for a piece titled "The Pump". It is written for a six-piece ensemble: Quark, Jehtoh, Atom, Students, Vibraphone, and Guitar. The key signature is B minor (Bm) and the time signature is 3/4. The score is divided into three measures. The first measure is marked with "123" above the first staff. The lyrics are: "of physics pumps_____ va - li - di - ty." for Jehtoh, "Va - lence e - lec - trons. Va - lence_ e - lec - trons. Va - lence_ e - lec - trons." for Students, and "Va - li - dat - ion. Va - li - dat - ion. Va - li - dat - ion." for the Students (lower part). The guitar and vibraphone parts provide accompaniment with chords Bm, F#, Gm, Gm/A, Bm, and F#.

126 Bm F# Bm F# Gm Gm/A Bm

QUARK

ЖЕНТОН

Need no va - li - dat - - i - on.

ATOM

STUDENTS

Va - lence e-lec-trons. Va - lence e-lec-trons. Va - lence e-lec-trons. Jump!

Va - li - dat - ion. Va - li - dat - ion. Va - li - dat - ion. Bump!

Vibraphone

Bm F# Bm F# Gm Gm/A Bm

Guitar

Bm F# Bm F# Gm Gm/A Bm