

# Strange Charm

A Song About Quarks

Hank Green

$\text{J} = 96$

B♭ Clarinet

A quark is a fun-da-men-tal con - sti - tu - ent of mat - ter Ob -

Guitar

s

Drumset

x x x x

B♭ Cl.

served in nine - teen six - ty eight through deep elas - tic scat - ter We

Guit.

s

Drs.

x x x x

B♭ Cl.

found that pro - tons aren't as sim - ple as we thought We thought

Guit.

s

Drs.

x x x x

B♭ Cl.

they were so - lid par - ti - cles but they are not Pro -

Guit.

s

Drs.

x x x x

B♭ Cl.

tons in fact are made up of three se - per - ate pie - ces It

Guit.

Drs.

B♭ Cl.

just gets more con - fu - sing as our know - ledge in - crea - ses But

Guit.

Drs.

B♭ Cl.

that is what a quark is, it's a piece of a pro - ton And they

Guit.

Drs.

B♭ Cl.

al - so make up oth - er things in - clu - ding the neu - tron Oh

Guit.

Drs.

B♭ Cl.

Up      Down      Strange      Charm      Top      Bot - tom      If      you

Guit.      s      s      s      s

Drs.      x      x      x      x      x      x      x

B♭ Cl.

don't know what a quark is, it don't mat - ter you still got 'em And with

Guit.      s      s      s      s

Drs.      x      x      x      x      x      x      x

B♭ Cl.

lep - tons      and      bo - sons      un - less      some-thing's      a - miss      They make up

Guit.      s      s      s      s

Drs.      x      x      x      x      x      x      x

B♭ Cl.

ev - ery thing that we can see and that we know e - xists

Guit.      s      s      s      s

Drs.      x      x      x      x      x      x      x

B♭ Cl.

14

Par - ti - cles made of quarks in - clud - ing pro - tons and neu - trons

Guit.

Drs.

B♭ Cl.

15

Are com - po - site par - ti - cles that phy - si - cists call had - rons

Guit.

Drs.

B♭ Cl.

16

Ma - ny types of had - rons are theo - et - ical - ly des - cribed But

Guit.

Drs.

B♭ Cl.

17

most e - xist for on - ly ve - ry brief a - mounts of time Quarks

Guit.

Drs.

B♭ Cl. 18

have el - ec - tric charge, co - lour charge, mass, and spin And

Guit. Drs.

Sustained notes and rests corresponding to the vocal line.

B♭ Cl. 19

hav - ing co - lour charge means they e - xist sole - ly in - Side of

Guit. Drs.

Sustained notes and rests corresponding to the vocal line.

B♭ Cl. 20

o - ther types of par - ti - cles and can - not e - xist a lone Which is

Guit. Drs.

Sustained notes and rests corresponding to the vocal line.

B♭ Cl. 21

why quarks have ne - ver been stu - died on their own Oh

Guit. Drs.

Sustained notes and rests corresponding to the vocal line.

22

B♭ Cl. Up Down Strange Charm Top Bot - tom If you

Guit.

Drs.

23

B♭ Cl. don't know what a quark is it don't mat - ter you still got 'em And with

Guit.

Drs.

24

B♭ Cl. lep - tons and bo - sons un - less some-thing's a - miss They make up

Guit.

Drs.

25

B♭ Cl. ev - ery thing that we can see and that we know e - xists

Guit.

Drs.

26

B♭ Cl.

Quarks can join to - ge - ther in two diffe - rent ways

Guit.

Drs.



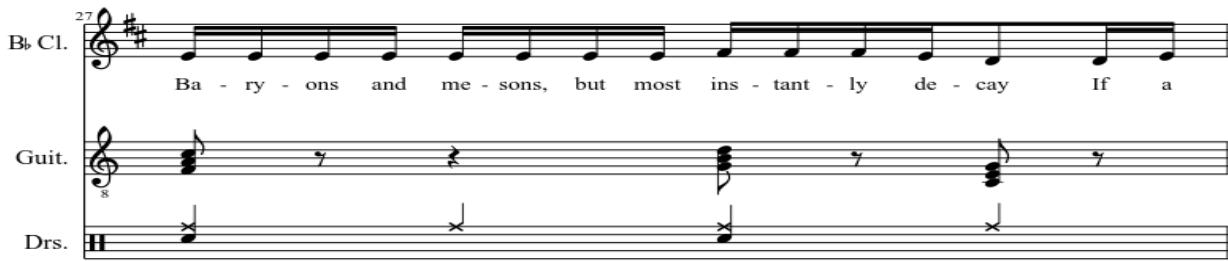
27

B♭ Cl.

Ba - ry - ons and me - sons, but most ins - tant - ly de - cay If a

Guit.

Drs.



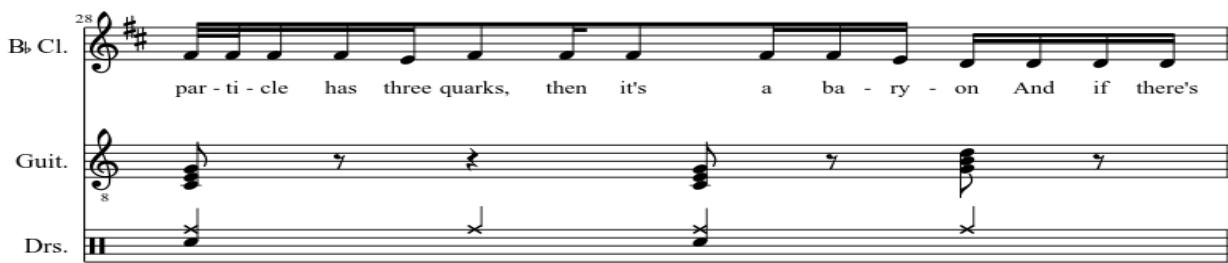
28

B♭ Cl.

par - ti - cle has three quarks, then it's a ba - ry - on And if there's

Guit.

Drs.



29

B♭ Cl.

one quark and an an - ti - quark, then it is a me - son These

Guit.

Drs.



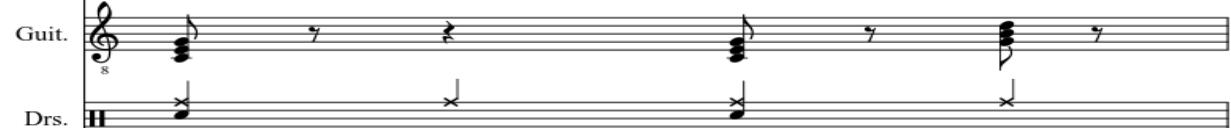
B♭ Cl.

ti - ny bits of mat-ter are part of al - most ev - ery - thing And there



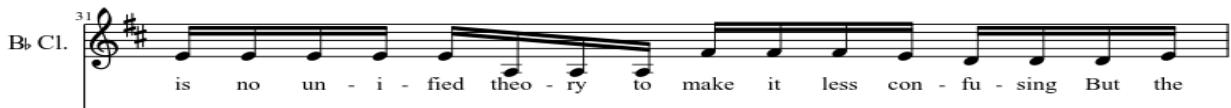
Guit.

Drs.



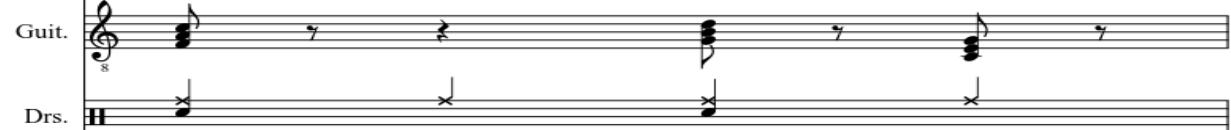
B♭ Cl.

is no un - i - fied theo - ry to make it less con - fu - sing But the



Guit.

Drs.



B♭ Cl.

fact that we've i - den - ti - fied that they e - xist at Is



Guit.

Drs.



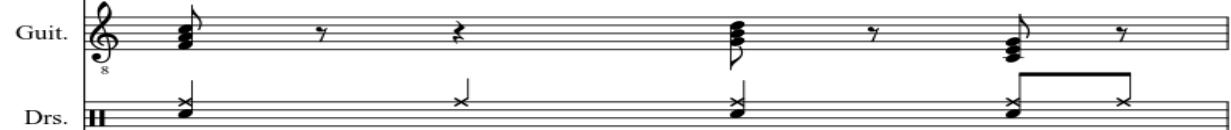
B♭ Cl.

so god - damn re - mark - a - ble that I just sit in awe Oh



Guit.

Drs.



34

B♭ Cl.

Up      Down      Strange      Charm      Top      Bot - tom      If      you

Guit.

Drs.

35

B♭ Cl.

don't know what a quark is it don't mat - ter you still got 'em And with

Guit.

Drs.

36

B♭ Cl.

lep - tons      and      bo - sons      un - less      some-thing's a - miss      They make up

Guit.

Drs.

37

B♭ Cl.

ev - ery thing that we can see and that we know e - xists

Guit.

Drs.