

Further look at SEM/EDS data from the VEGA Valley

Magnetic core from
ball lightning?

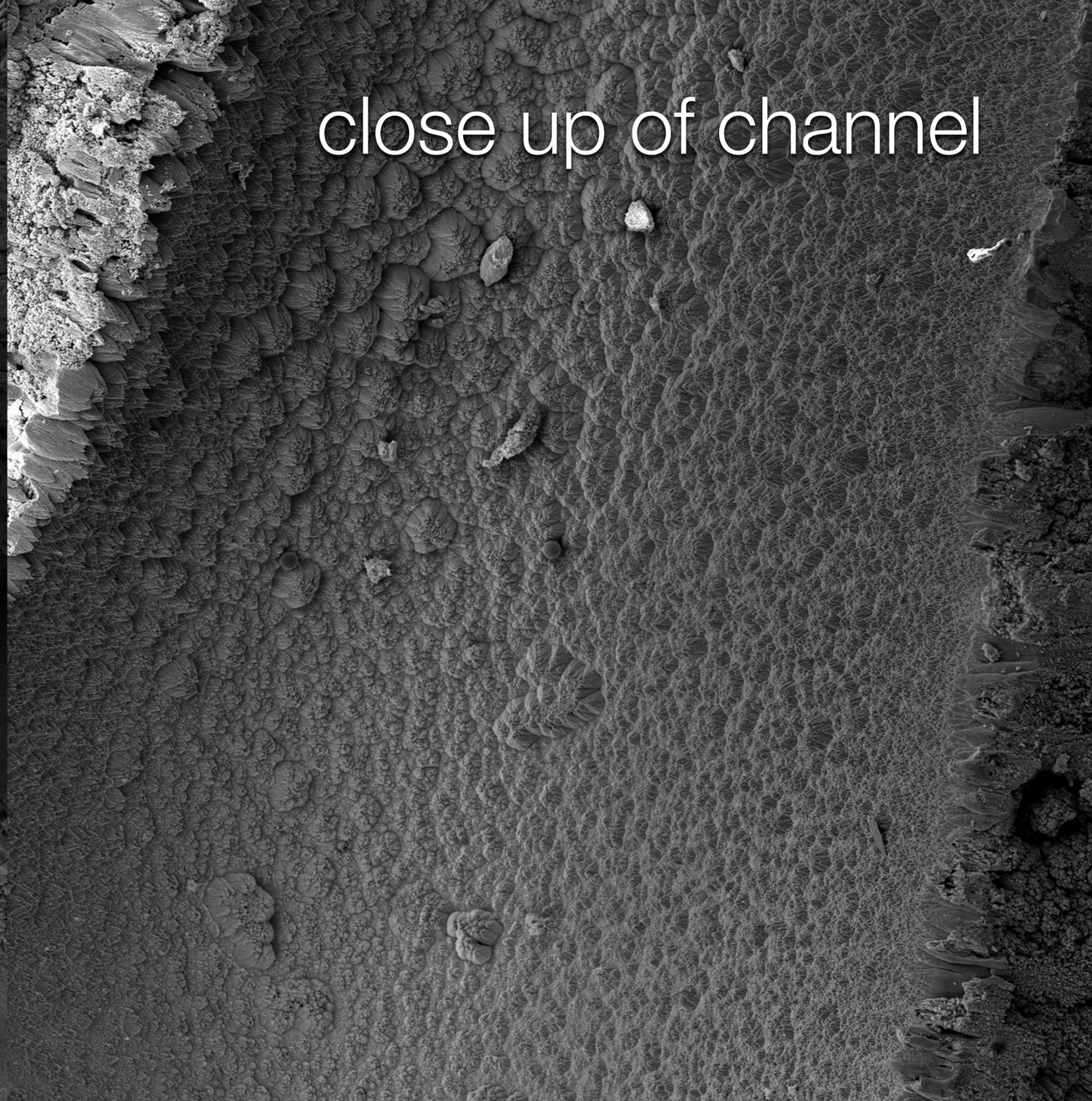


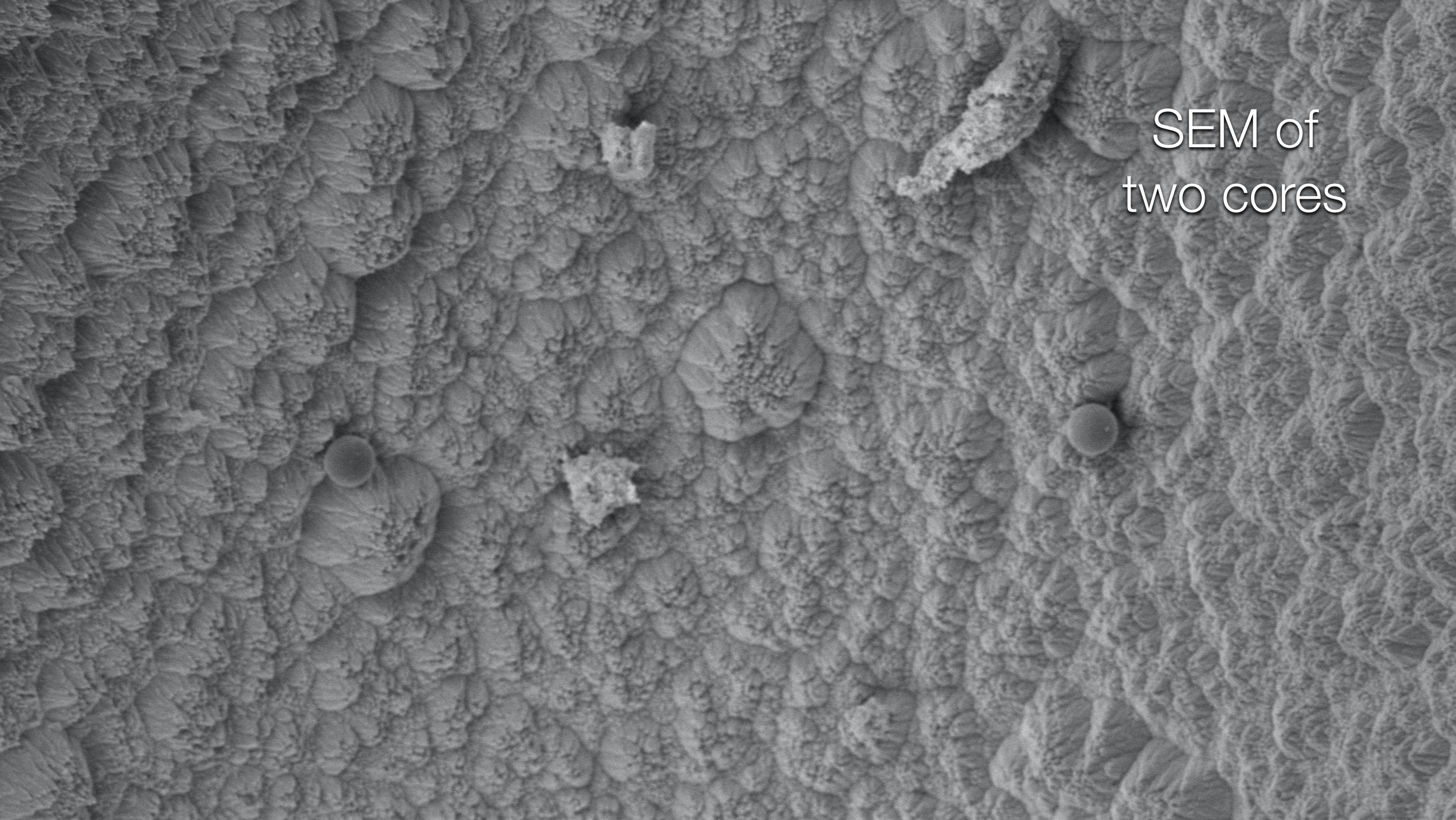


First acceptable
VEGA Valley
stack focus

SEM of same
area on
VEGA Valley

close up of channel





SEM of
two cores

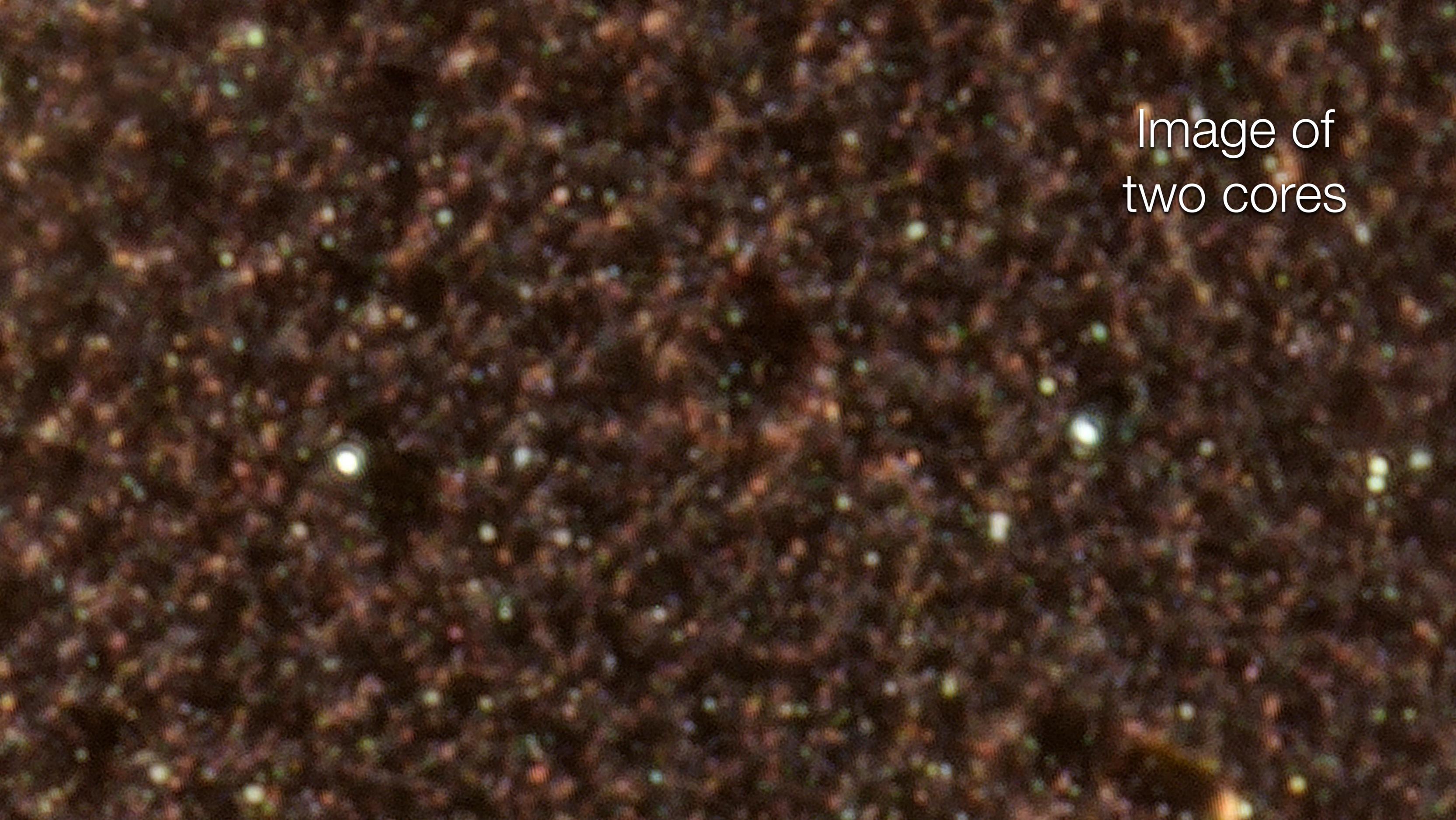
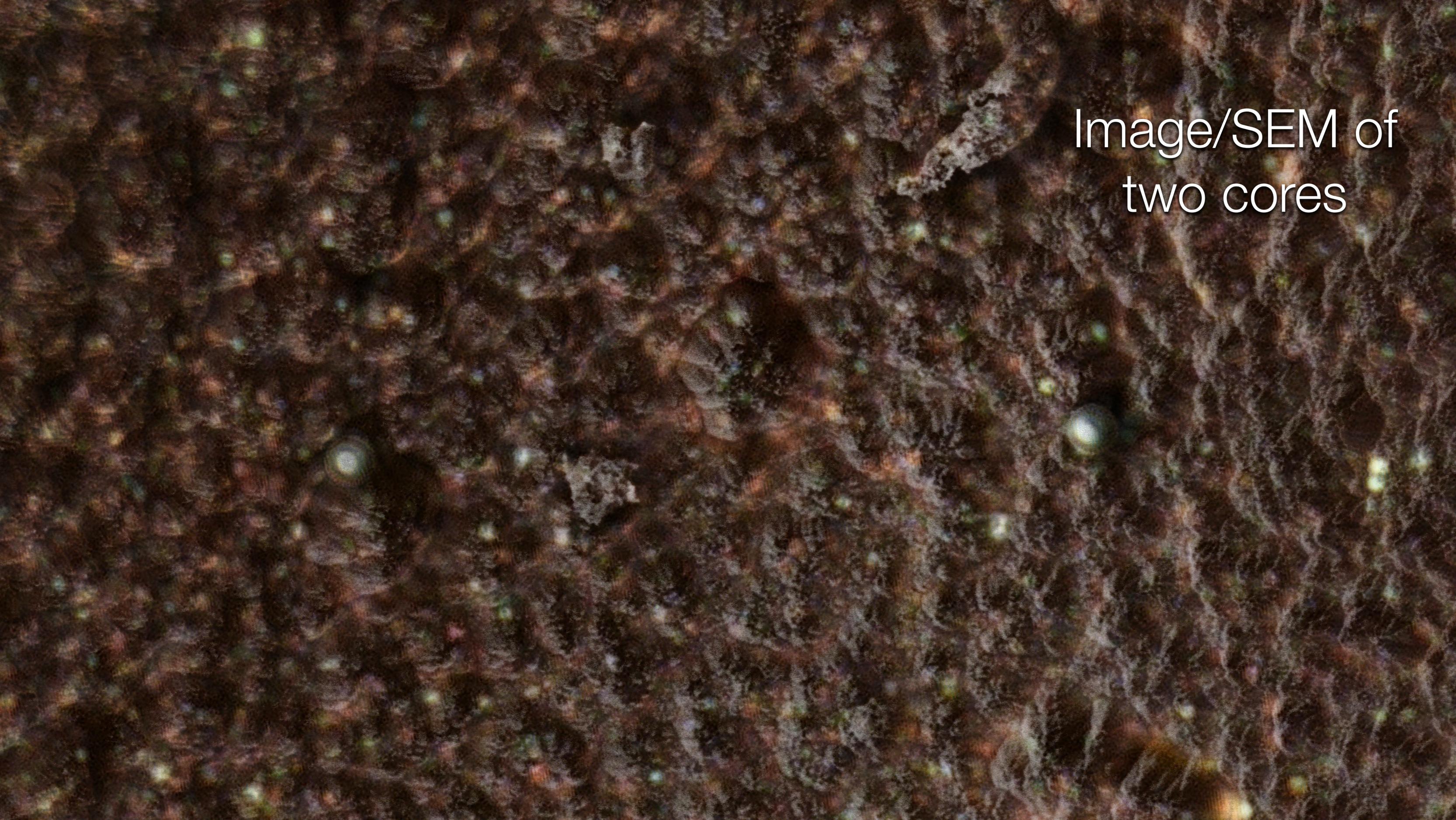
A dense field of stars, likely a star cluster or galaxy core, showing two distinct cores. The stars are concentrated in two main regions, one on the left and one on the right, with a dark gap between them. The stars vary in color, including yellow, white, blue, and red. The background is dark with a fine-grained texture of smaller stars.

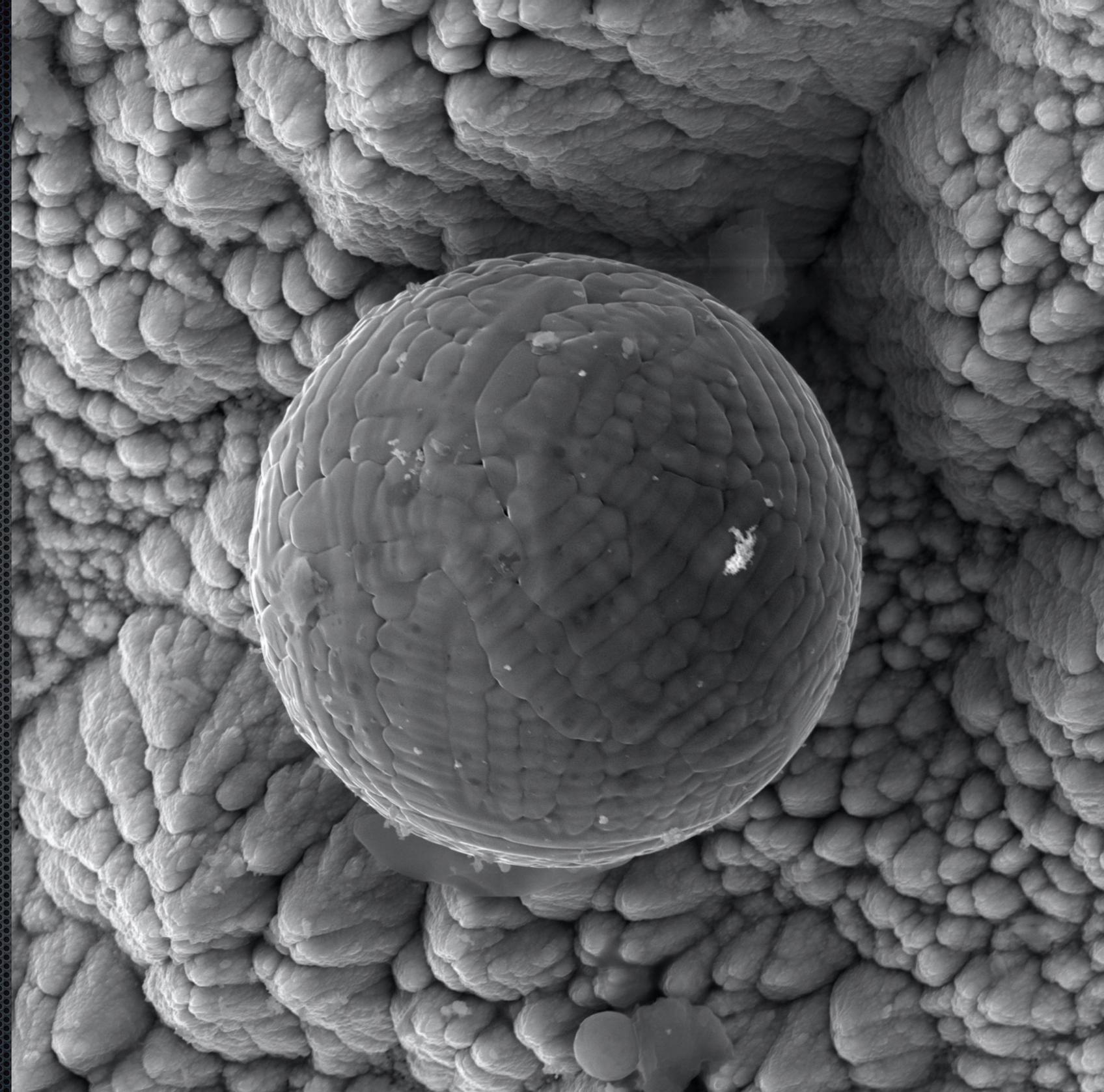
Image of
two cores

The image is a scanning electron micrograph (SEM) showing a highly textured, dark brown to black surface. The surface is covered with numerous small, bright, spherical particles of varying sizes, some appearing as distinct, larger spheres. The background has a complex, porous, and fibrous appearance, suggesting a biological or mineral structure. The overall texture is rough and irregular, with some larger, more rounded features interspersed among the smaller particles.

Image/SEM of
two cores

Micrometeorites?

- Ken Shoulders
comments on lightning
- Placement of structures
inside VEGA
- Placement of structures
inside ULTR
- Elemental make up



SEM HV: 20.0 kV

WD: 15.41 mm

View field: 48.3 μm

Det: SE

10 μm

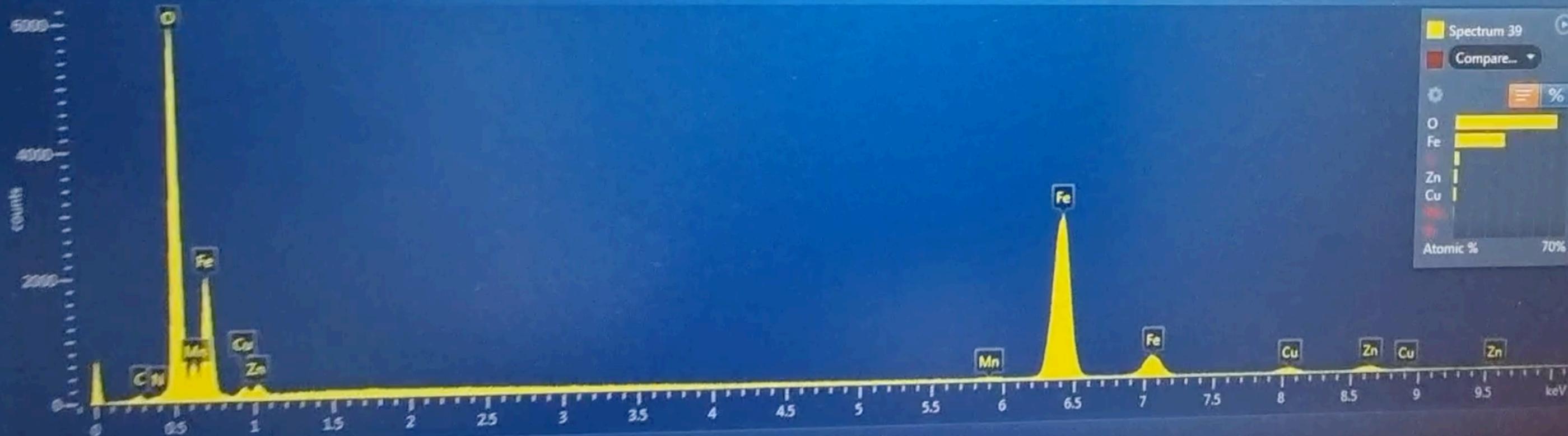
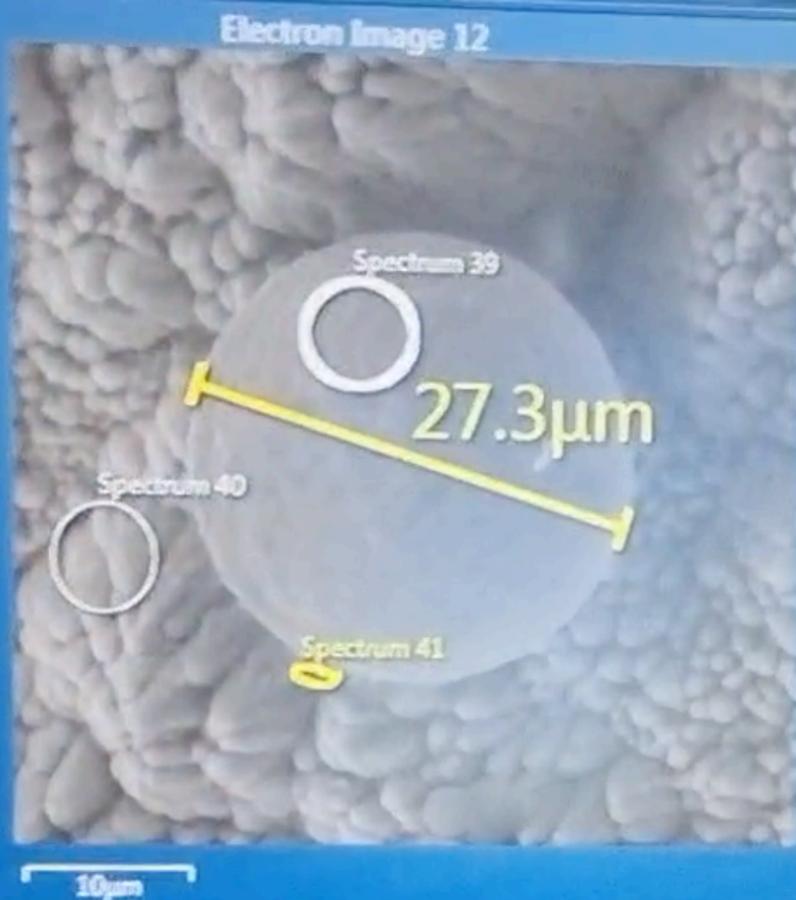
SEM MAG: 45.8 kx

Date(m/d/y): 09/13/21

MIRA3 TESCAN

Ceitec Nano

Elemental makeup



- Evil Twin
- Splat
- Mix
- Mix_Map
- Tongue
- Flower
- Black EVO
- Blob
- Ball2

Electron Image

- Spectrum 39
- Spectrum 40
- Spectrum 41

Ball2

Mini View

RateMeter

Input Count Rate (cps) Total

Output Count Rate (cps) Total

Dead Time

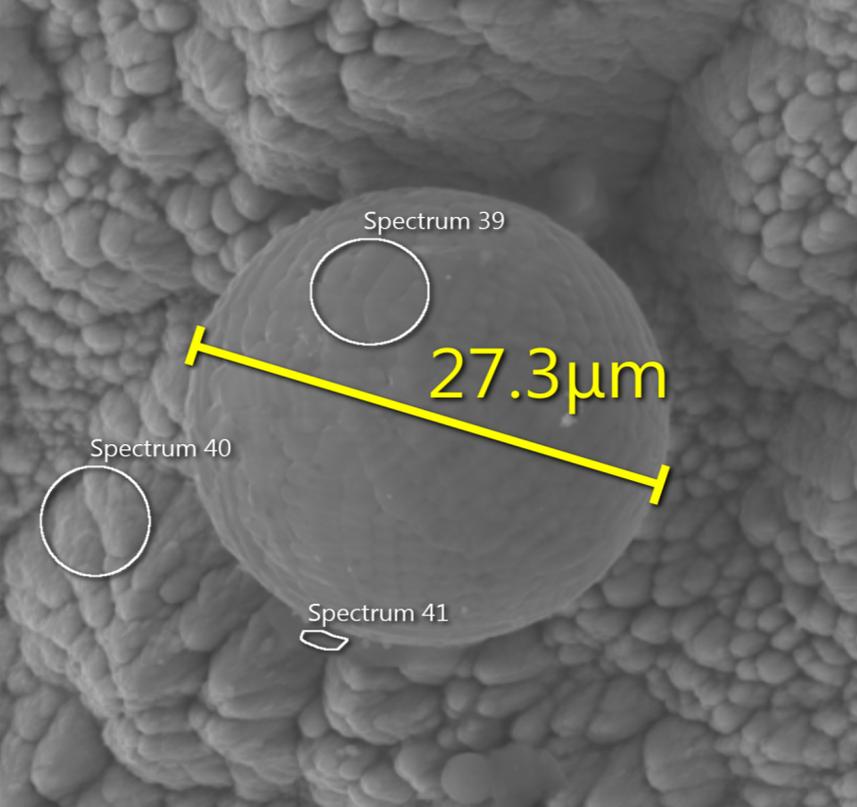
Recommended WD 15.0 mm

Process Time: 6

High Voltage: 20.0 kV

2005-11-14 10:47:20.111 WD: 15.4 mm Input Rate: 2320 cps Output Rate: 1960 cps Dead Time: 8% Process Time: 6

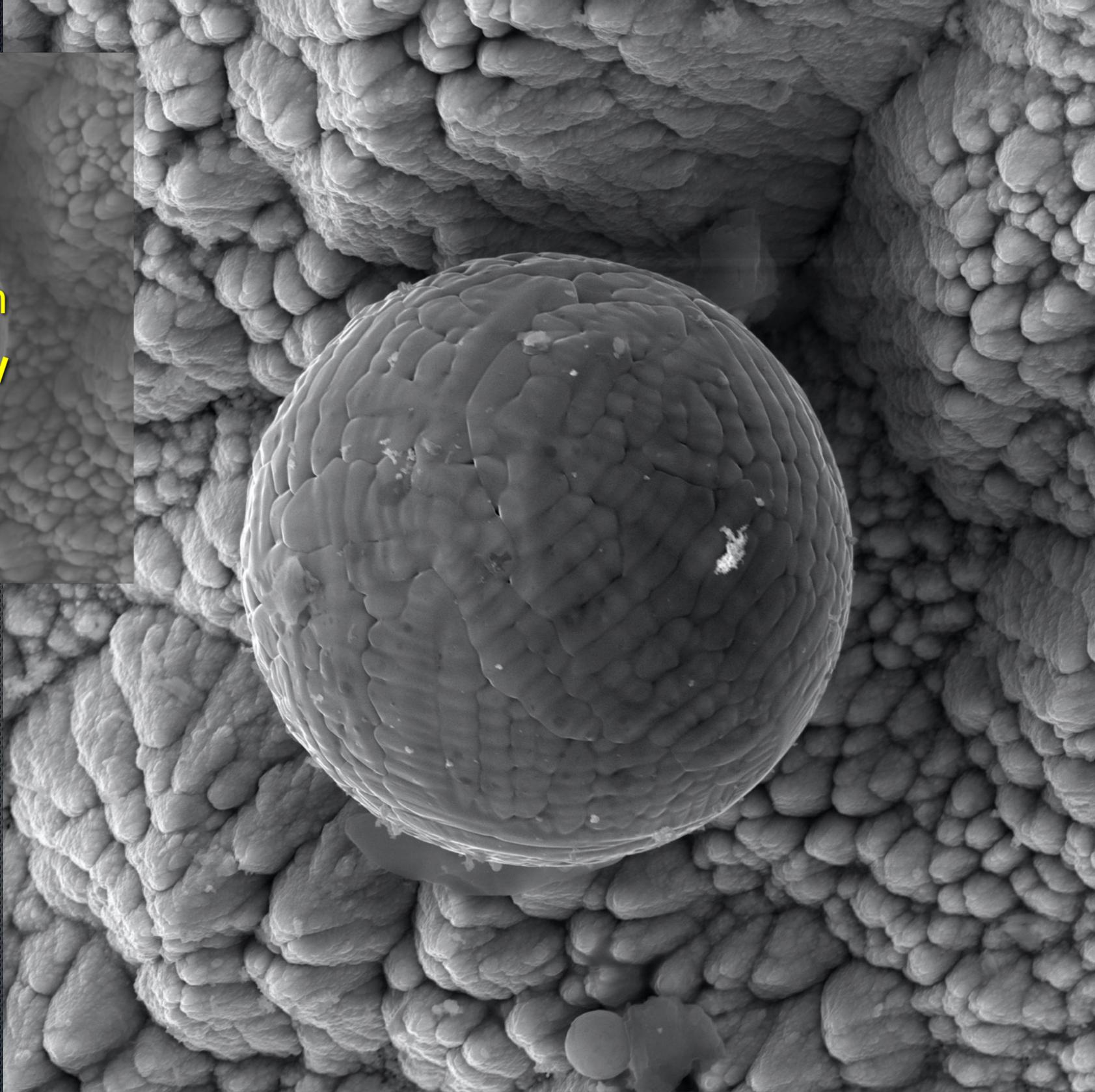
Core elemental makeup



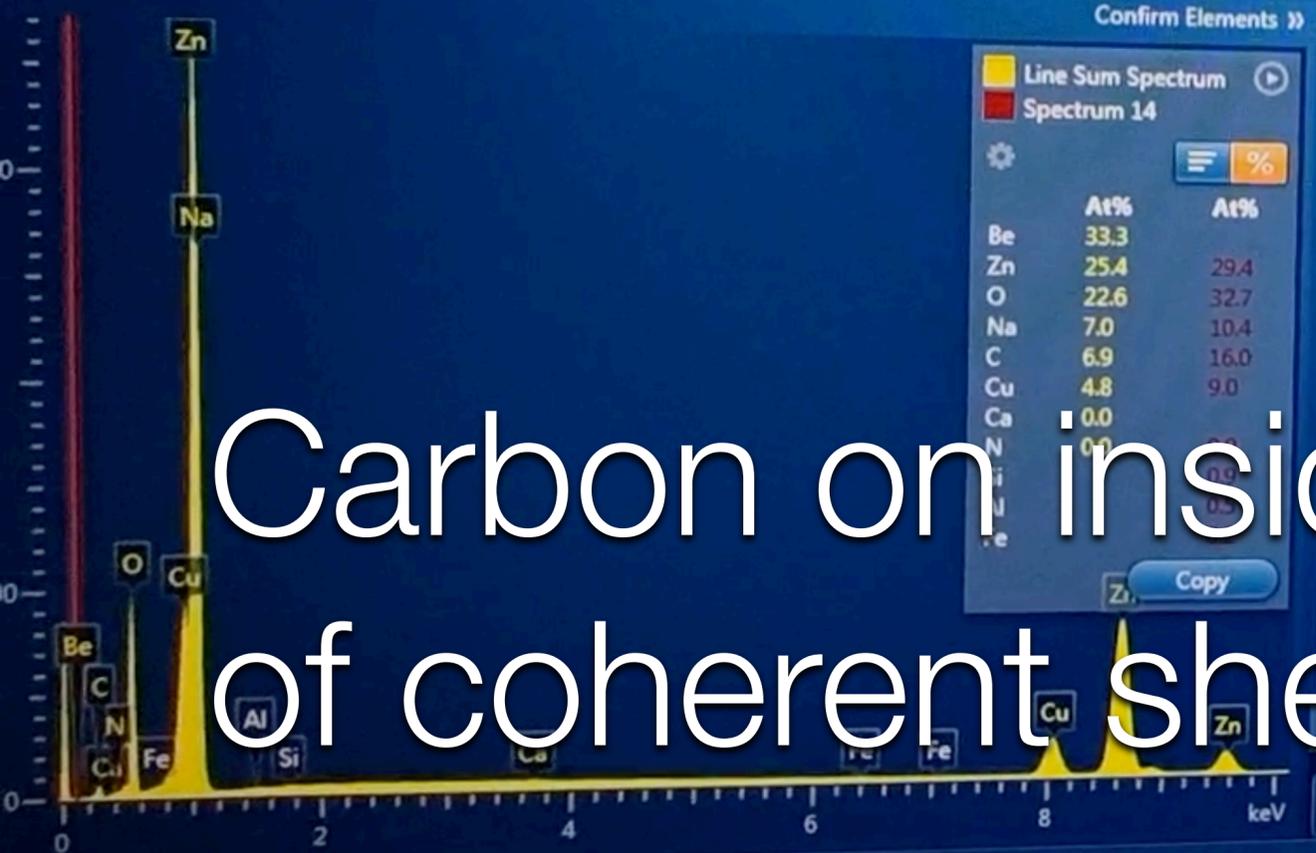
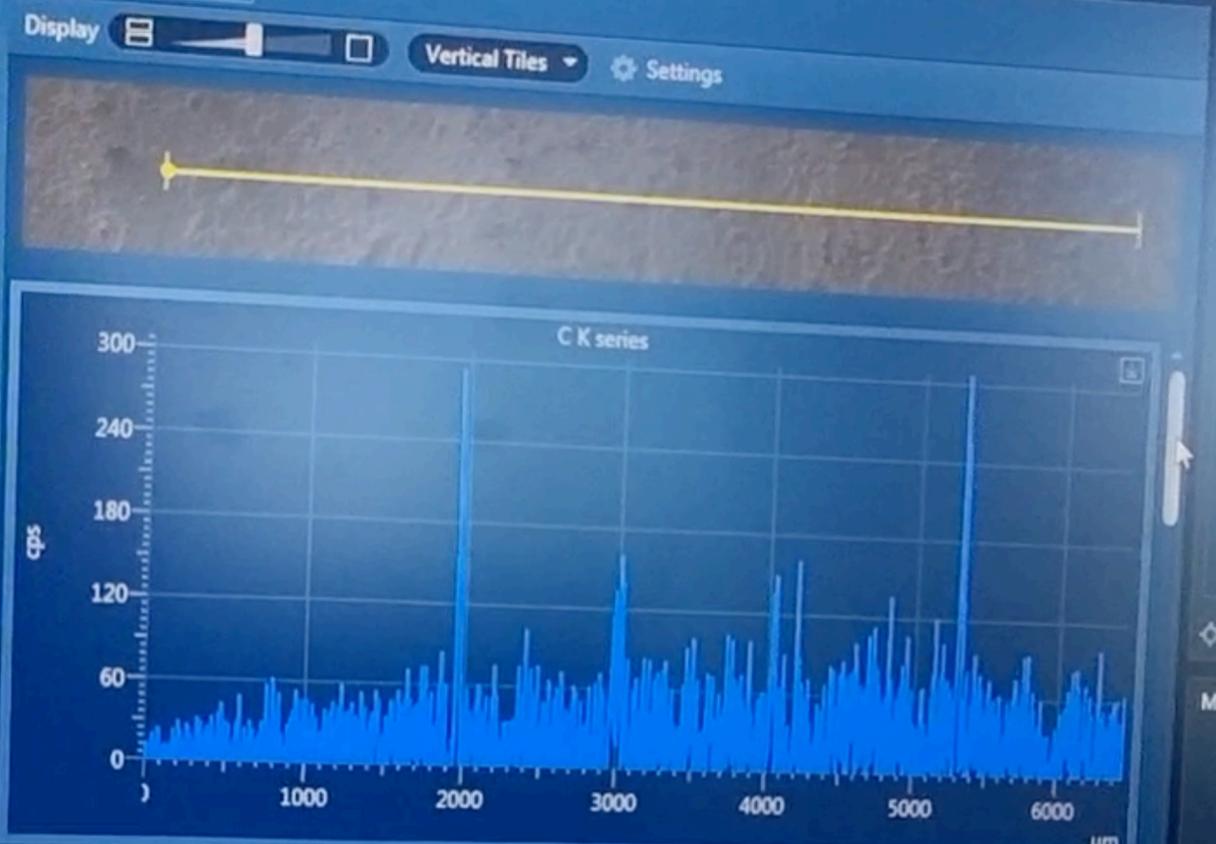
Spectrum 39	Atomic %	Wt%	Wt% Sigma
C	2.88	1.16	0.26
N	0	0	0
O	62.84	33.69	0.23
Mn	0.25	0.47	0.07
Fe	30.59	57.25	0.29
Cu	1.57	3.34	0.15
Zn	1.87	4.09	0.18
Total	100	100	

2016 - FeO₂ discovery

2017 - Unexpected 3+ valence of iron in FeO₂



SEM HV: 20.0 kV	WD: 15.41 mm	MIRA3 TESCAN
View field: 48.3 μm	Det: SE	10 μm
SEM MAG: 45.8 kx	Date(m/d/y): 09/13/21	Ceitec Nano



Search Help

Data View

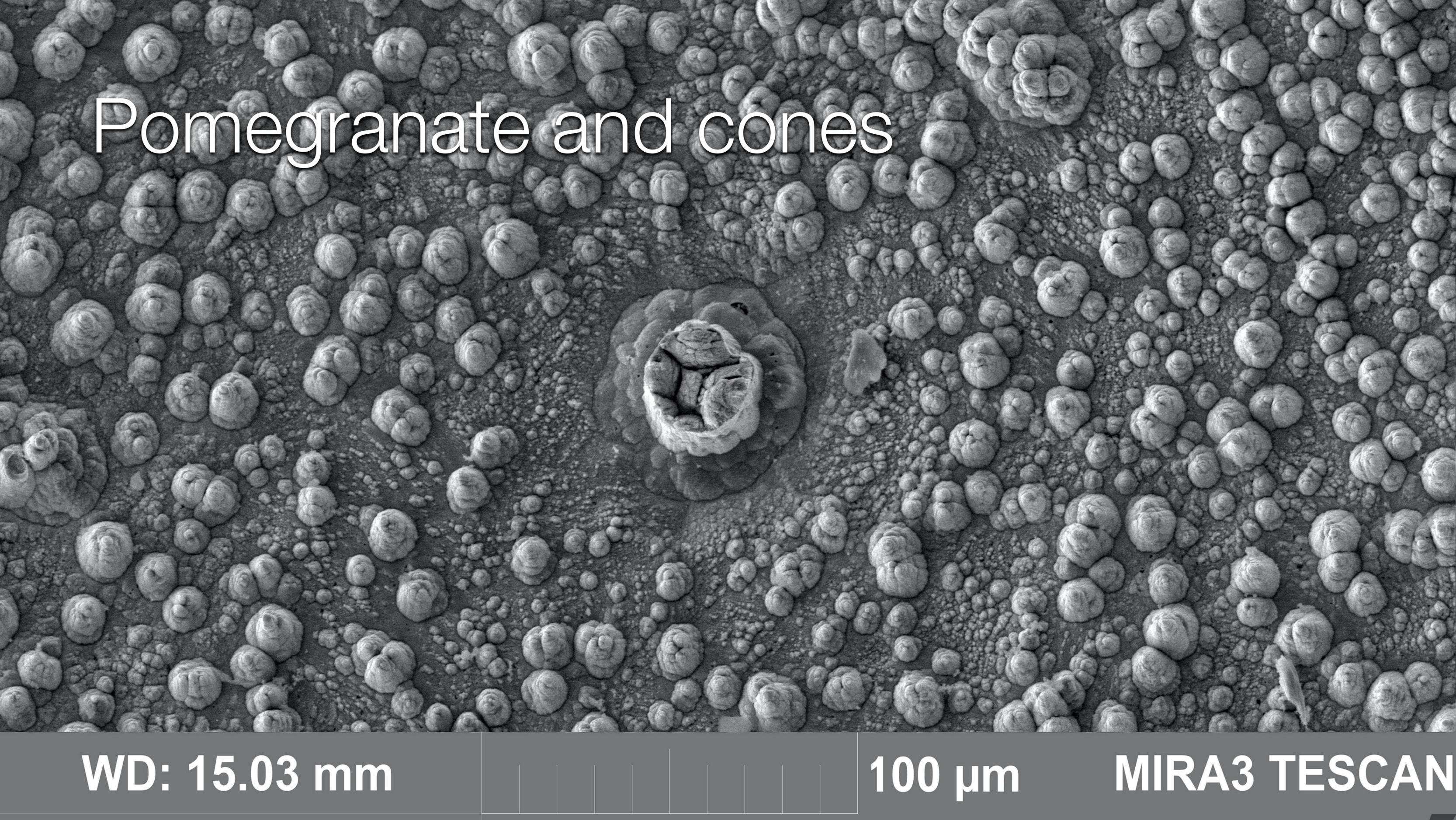
Current Site Data Tree

- Project 1
 - EVO01
 - EVO1
 - Ball
 - Evil Twin
 - Split
 - Mix
 - Mix_Map
 - Tongue
 - Electron Image 7
 - Line Data 1
 - EDS Data



Carbon on inside edge of coherent sheath

Pomegranate and cones

This scanning electron micrograph (SEM) shows a dense field of small, rounded, textured structures, likely pomegranate seeds or cones, with a larger, more complex structure in the center. The structures are arranged in a somewhat regular pattern, with varying sizes and orientations. The central structure is larger and more intricate, possibly representing a different stage or type of cone. The overall appearance is highly textured and granular.

WD: 15.03 mm

100 μ m

MIRA3 TESCAN

Pomegranate and cones

Scanning electron micrograph showing a dense field of small, rounded, textured structures, likely pomegranate seeds or cones, with a larger, more complex structure in the upper right corner.

WD: 15.03 mm

100 μm

MIRA3 TESCAN

Pomegranate elemental

Spectrum 28

4.4 μm

Spectrum 31



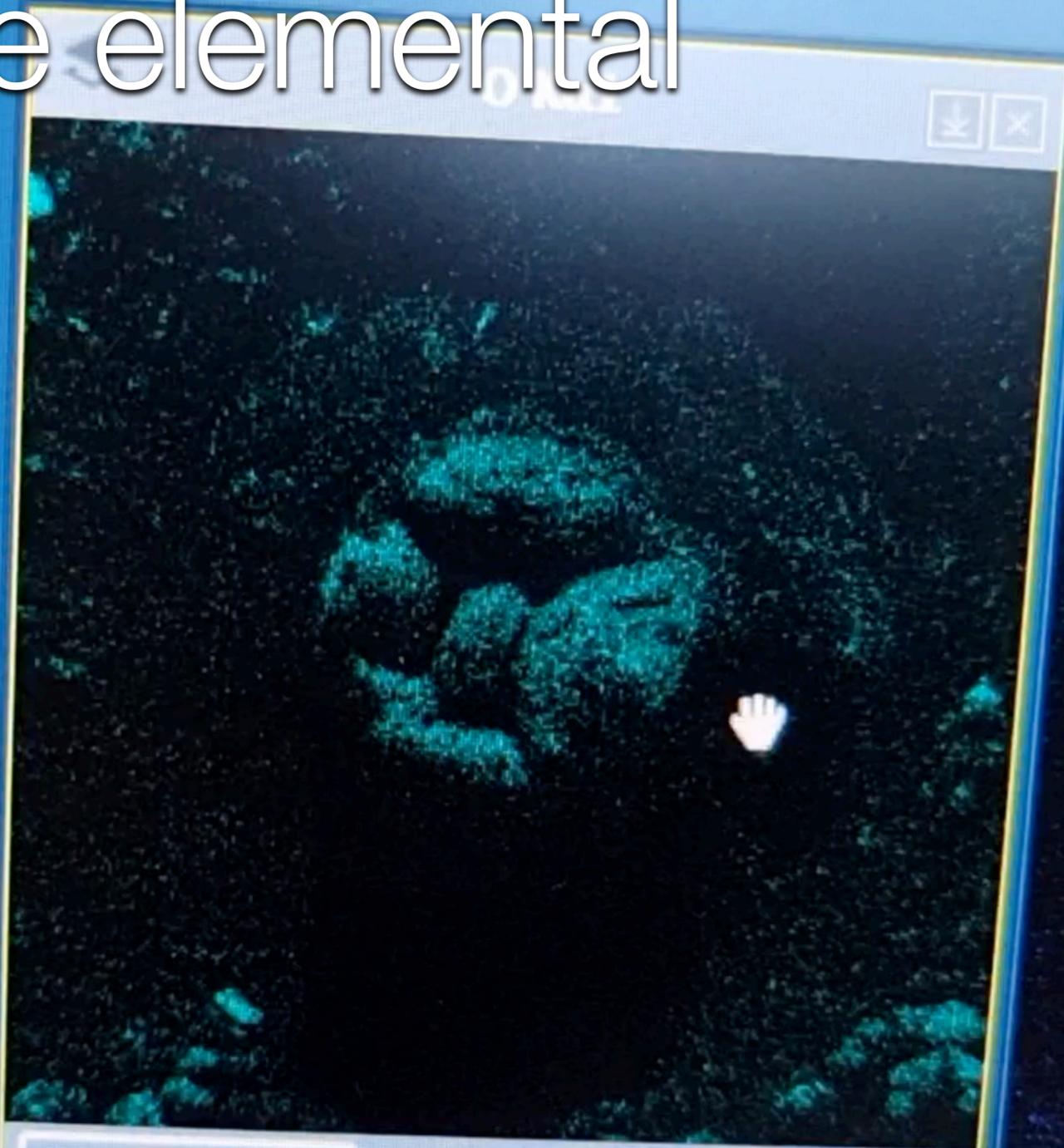
Spectrum 29



25 μm



25 μm



25 μm



C K α 1_2

25 μm



Electron Image 9

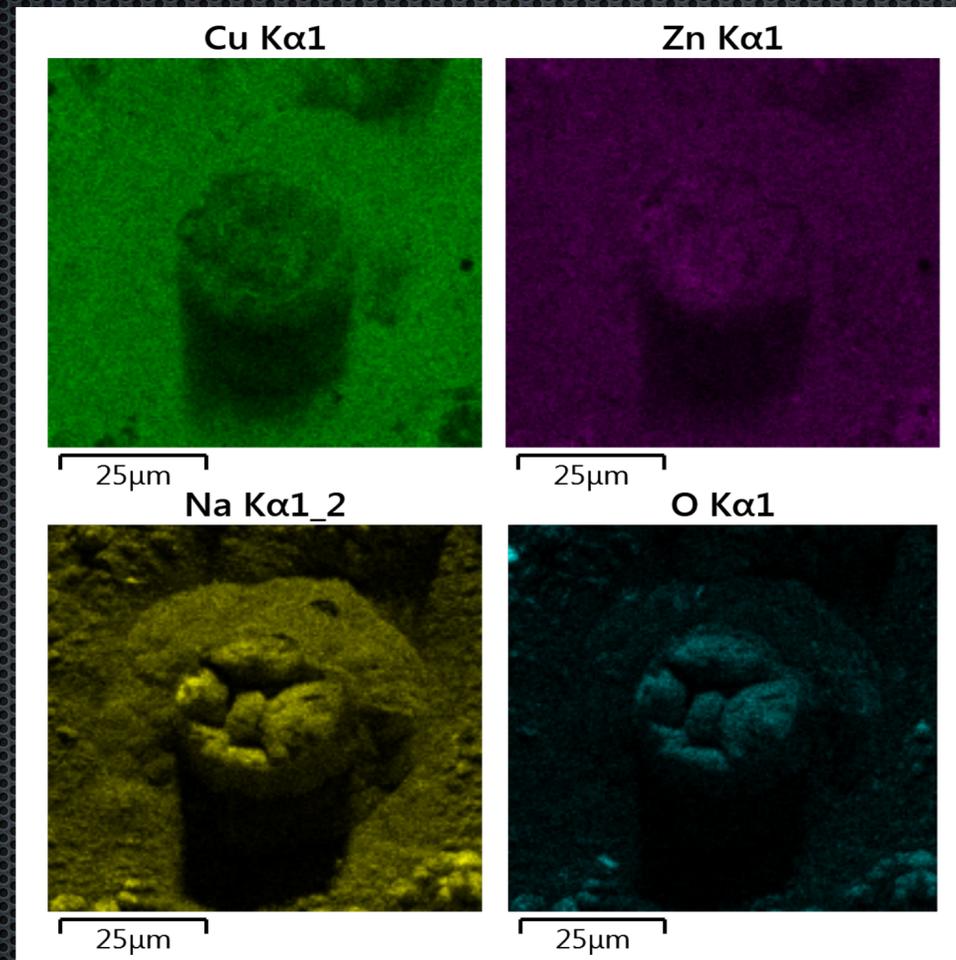
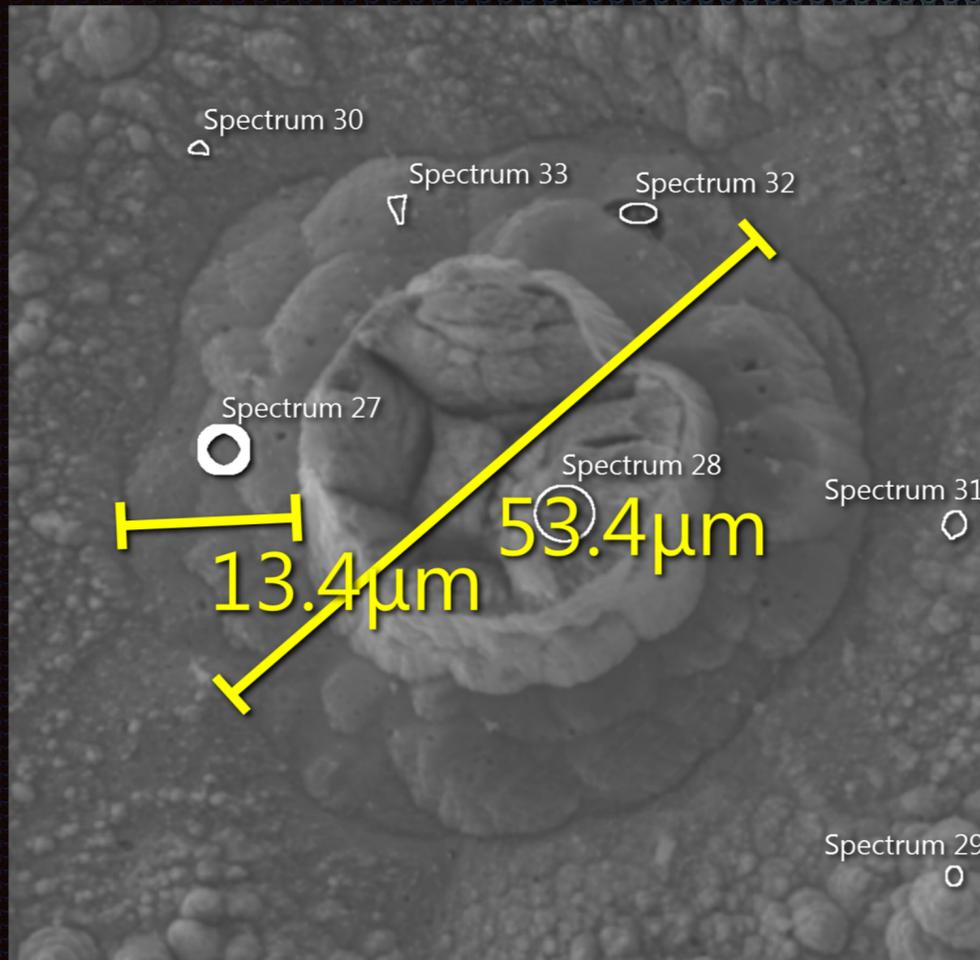
25 μm

Pomegranate elemental

Spectrum 27	Atomic %	Wt%	Wt% Sigma
C	10.34	2.4	0.42
N	0.28	0.08	0.27
O	7.13	2.2	0.13
Na	8.31	3.69	0.39
Cu	49.95	61.33	0.52
Zn	23.99	30.3	0.39
Total	100	100	

Spectrum 28	Atomic %	Wt%	Wt% Sigma
C	6.87	1.76	0.29
O	21.41	7.3	0.15
Na	8.17	4	0.34
Cu	41.5	56.22	0.4
Zn	22.05	30.72	0.33
Total	100	100	

Spectrum 30	Atomic %	Wt%	Wt% Sigma
C	8.99	2.31	0.36
N	0.43	0.13	0.19
O	18.02	6.17	0.14
Na	9.03	4.44	0.36
K	0.81	0.68	0.05
Cu	35.78	48.62	0.4
Zn	26.93	37.65	0.37
Total	100	100	



Pomegranate meaning

“regeneration and resurrection”

Source: bit.ly/3nJbsmb



Source: bit.ly/3Ewb7sO



SEM HV: 20.0 kV WD: 15.07 mm MIRA3 TESCAN
View field: 74.2 µm Det: SE 20 µm
SEM MAG: 29.8 kx Date(m/d/y): 09/13/21 Ceitec Nano

