Crystal Data: Monoclinic. *Point Group*: 2/*m*. As prismatic crystals and anhedral grains to 70 μm.

Physical Properties: Cleavage: None. *Tenacity*: Brittle. *Fracture*: Uneven. Hardness = 4-4.5 VHN = 236-248, 242 average (30 g load). D(meas.) = n.d. D(calc.) = 4.181

Optical Properties: Opaque. *Color*: Black, tin-white in reflected light. *Streak*: Black.
Luster: Metallic.
Optical Class: *Anisotropism*: Weak, dark gray to gray. Non-pleochroic.
R_1-R_2: (470) 23.6-25.3, (546) 22.4-24.7, (589) 22.1-24.3, (650) 21.8-23.8

Cell Data: *Space Group*: *C*2/*m*. a = 12.5077(6) b = 3.8034(2) c = 16.0517(8) β = 94.190(4)° Z = 4

X-ray Powder Pattern: Vorontsovskoe Au deposit, Sverdlovskaya Oblast', Northern Urals, Russia.
2.690 (100), 2.788 (57), 3.486 (50), 3.286 (50), 2.806 (39), 1.904 (37), 3.262 (36)

Chemistry:

	(1)	(2)
Mn	21.23	23.54
Cu	0.29	
Ag	0.56	
Pb	1.90	
As	15.25	16.05
Sb	27.03	26.07
S	33.23	34.34
Total	99.49	100.00

(1) Vorontsovskoe Au deposit, Sverdlovskaya Oblast', Northern Urals, Russia; average electron microprobe analysis; corresponds to $Mn_{1.86}Pb_{0.04}Ag_{0.03}Cu_{0.02}As_{0.98}Sb_{1.07}S_{5.00}$. (2) Mn_2AsSbS_5.

Mineral Group: Pavonite homologous series.

Occurrence: In a gold deposit in metasomatites (skarns, argillisites and jasperoids) that replace volcanogenic-sedimentary rocks and limestones. Brecciated metasomatites host Mn-Tl-Hg-As-Sb mineralization.

Association: Manganiferous dolomite and calcite, pyrite, orpiment, realgar, stibnite, aktashite, alabandite, boscardinite, chabournéite, coloradoite, clerite, écrinsite, gold, routhierite, sphalerite, twinnite.

Distribution: From the Vorontsovskoe gold deposit, ~13 km south of Krasnotur'insk, Sverdlovskaya Oblast', Northern Urals, Russia.

Name: Honors Czech crystallographer Professor *Lubor Žák* (1925-2008), Charles University, Prague, Czech Republic, an expert on the mineralogy and structures of Bi-sulfosalts and on the geology and mineralogy of manganese deposits in the former Czechoslovakia.

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (5498/1).

References: (1) Kasatkin, A.V., E. Makovicky, J. Plášil, R. Škoda, A.A. Agakhanov, S.Y. Stepanov, and R.S. Palamarchuk (2020) Luboržákite, Mn_2AsSbS_5, a new member of pavonite homologous series from Vorontsovskoe gold deposit, Northern Urals, Russia. Mineral. Mag., 84, 738-745.