

Electronic Supplementary Information of

Real Time and Space Observation of Domain Wall Migration in
Quasi-1D Bromo-Bridged Palladium Complex by STM

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Table 1 Crystallographic data of [Pd(chxn)₂Br]Br₂ and [Pd(chxn-*d*₄)₂Br]Br₂

Sample	[Pd(chxn) ₂ Br]Br ₂ [*]	[Pd(chxn- <i>d</i> ₄) ₂ Br]Br ₂
Empirical Formula	C ₁₂ H ₂₈ Br ₃ N ₄ Pd ₁	C ₁₂ H ₂₀ D ₈ Br ₃ N ₄ Pd ₁
Formula Weight	574.51	582.56
Temperature [K]	295	93(2)
Wavelength [Å]	0.71073	0.71073
Crystal System	Orthorhombic	Orthorhombic
Space Group	<i>I</i> 222	<i>I</i> 222
<i>a</i> [Å]	23.884(3)	23.778(3)
<i>b</i> [Å]	5.293(1)	5.2774(9)
<i>c</i> [Å]	7.073(1)	6.9908(10)
<i>V</i> [Å ³]	894.2(2)	877.2(2)
<i>Z</i>	2	2
Density (calcd.) [Mg/m ³]	2.134	2.175
Goodness-of fit on <i>F</i> ²	0.85	1.137
Final <i>R</i> indices	<i>R</i> ₁ =0.032 (<i>I</i> >3σ(<i>I</i>))	<i>R</i> ₁ =0.0381 w <i>R</i> ₂ =0.1095 (<i>I</i> >2σ(<i>I</i>))
Final <i>R</i> (all data)	–	<i>R</i> ₁ =0.0394 w <i>R</i> ₂ =0.1101

^{*}Z. Hazel, *Acta. Crystallogr. C*, 1991, **47**, 962.

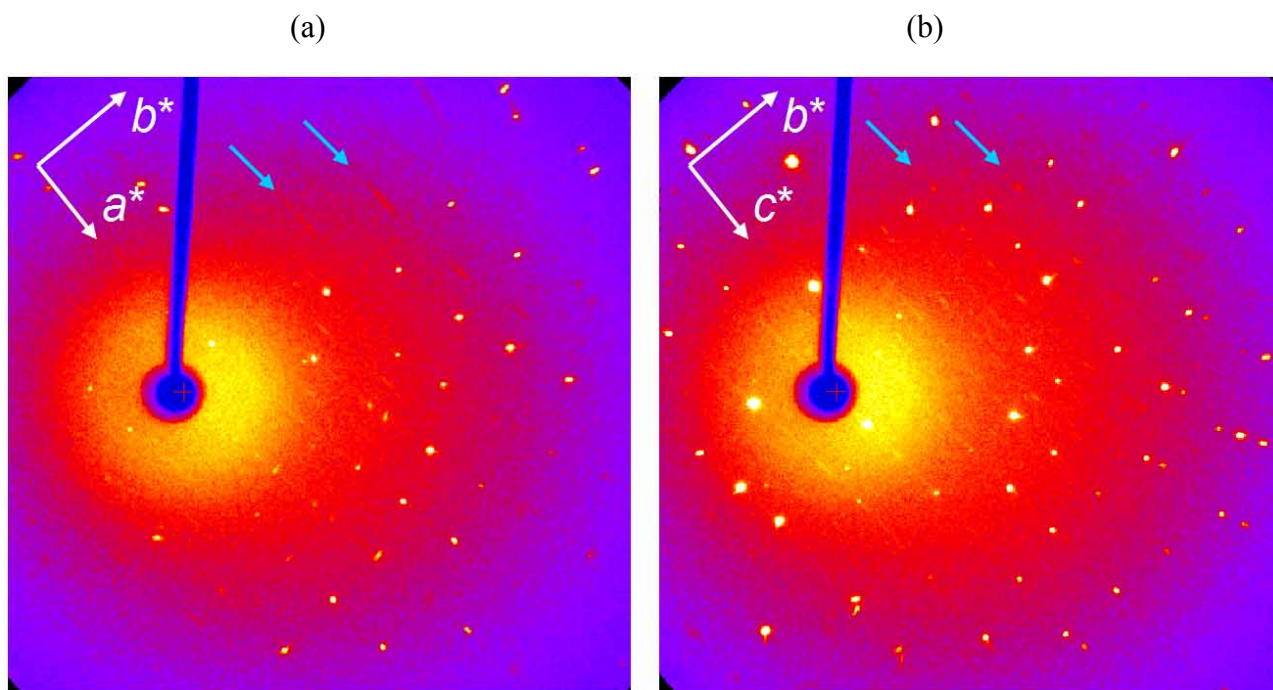


Figure S1 Oscillation photograph of $[\text{Pd}(\text{chxn-}d_4)_2\text{Br}]\text{Br}_2$. (a) a^*b^* plane (b) b^*c^* plane. Light blue arrows show diffuse scatterings.