Properties of double event patterns
Classification of doubles

Properties of double event patterns
split backward

readout direction

ree ission

logarithmic intensity scale

raw amplitude [adu]

row number

dividing line: adu = a + b * row,  a = 16.76,  b = 0.143
average intensity above line: 3.20 events / row / adu
average intensity below line: 484.58 events / row / adu

Properties of double event patterns
XMM–Newton / EPIC pn   distribution of singles and doubles

HK9808b2. MnK: FS, 178 K, 5.9 keV

pn125101.015: FS, 183 K, 5.9 keV, rev 125

doubles

doubles / singles

doubles / singles

doubles

doubles / singles

doubles / singles

Properties of double event patterns

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Properties of double event patterns

split backward
split forward
split right
split left
XMM / EPIC pn
Q0
pn125101.015

XMM / EPIC pn
Q1
pn125101.015

split backward
split forward

Properties of double event patterns
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Properties of double event patterns

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Properties of double event patterns
XMM–Newton / EPIC pn  
distribution of doubles

pn080001.003: 183 K, 5.9 keV, rev 80

split left

split right

split backward

split forward

split backward

split forward

split backward + split forward

split backward – split forward

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Properties of double event patterns

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XMM–Newton / EPIC pn  distribution of doubles

pn242901.005: FS, 183 K, 5.9 keV, rev 242

split left

split right

split backward

split forward

split backward

split forward

split backward + split forward

split backward – split forward

Properties of double event patterns

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XMM–Newton / EPIC pn distribution of doubles

pn134801.003: FS, 183 K, 5.9 keV, LW, rev 134

split left

split right

split backward

split forward

split backward

split forward

split backward + split forward

split backward - split forward
XMM–Newton / EPIC pn distribution of doubles

15125101.015: FS, 183 K, 5.9 keV, rev 125, lower threshold increased to 150 adu

split left
split right
split backward
split forward

80125101.015: FS, 183 K, 5.9 keV, rev 125, lower threshold increased to 80 adu

split left
split right
split backward
split forward

Properties of double event patterns

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XMM–Newton / EPIC pn distribution of doubles

HK9808b2.MnK: FS, 178 K, 5.9 keV

split left

split right

split backward

split forward

split backward

split forward

Properties of double event patterns

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XMM–Newton / EPIC pn  distribution of doubles

HK990107.FeK: Arixas, 183 K, 6.4 keV

split left

split right

split backward

split forward

split backward + split forward

split backward - split forward

Properties of double event patterns

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Properties of double event patterns

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