



2019 2020

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Hfi ghYX 7 =:

H\Y B G: 7m\YfgYW f]hm 7YbhYf cZ 9I WY ``YbWY

WY ``YbWY



Navigation icons: back, forward, search, and other controls.

K \ Uh ]g 7 mVYf]bZfUghfi Whi fY (7 =) ?

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7 mV YfgYW f]hmHfUb g]h]c b hc DfUWh]WY (HHD)

7 mV YfgYW f]hm HHD Gi WWW gg Ghc f]Yg

WWW WWW











HHD HYW\ b]WU` F YUX]bYgg @Yj Y` (HF @)  
5ggYgga Ybh Hcc`

2019 2020



HF @ 9I d`U]bYX

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HHD UXUdhUh]cbg Zfca h\Y gci fWY  
a UhYf]U` : XYZ]b]h]cbg

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HF @ K cf\_g\YYh:  
Gi VgmghYa g UbX 7ca dcbYbhg

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HHD HF @K cf\_g\YYh9I Ua d`Y: K YV  
=bhYfZUWY Gi VgmghYa

2019 2020



# HHD 7Ubj Ug - HYa d`UhY

1 FYgYUfW dfcV`Ya

2019 2020



HHD 7Ubj Ug - : ]`YX ]b Zcf 5GG9FH

1 Research problem







B G: 7mVYfgYW f]hmGi a a ]h

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A c b h \ ` m K Y V ] b U f g

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